

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

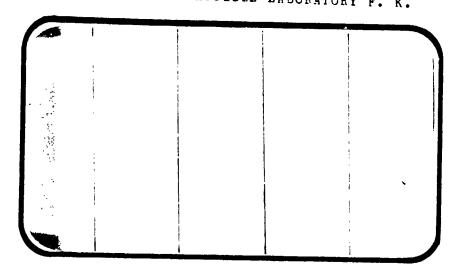
NASA CR-

14/835

(NASA-CR-141835) MATED AEFODYNAMIC CHARACTERISTICS INVESTIGATION FOR 0.04-SCALE MODEL BORING 747 CAM/EXTERNAL TANK (MCDEL AX1284 E-5) COMBINATION IN THE UNIVERSITY OF WASHINGTON AERONAUTICAL LABORATORY F. K.

N76-15089

Unclas G3/L2 09380



A STATE OF THE OWNER OWNER

SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT

JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA MANagement services



DMS-DR-2236 NASA CR-141, 835

MATED AERODYNAMIC CHARACTERISTICS INVESTIGATION
FOR 0.04-SCALE MODEL BGEING 747 CAM/EXTERNAL

TANK (MODEL AX1284 E-5) COMBINATION IN THE UNIVERSITY OF WASHINGTON AERONAUTICAL LABORATORY

F. K. KIRSTEN WIND TUNNEL (CA11)

by

747 Aerodynamics, 747 Flight Controls and Wind Tunnel Test Staff
The Boeing Co.

Prepared under NASA Contract Number NAS9-13247

by

Data Management Services Chrysler Corporation Space Division New Orleans, La. 70189

for

Engineering Analysis Division

Johnson Space Center National Aeronautics and Space Administration Houston, Texas

WIND TUNNEL TEST SPECIFICS:

UWAL 1146 Test Number:

NASA Series Number: CAll

Model Number: TE 1065 (Boeing 747-100), AX1284 (External Tank)

Test Dates: 12 through 20 February 1975

Occupancy Hours:

FACILITY COORDINATOR:

R. W. Sendek ORGN. P-8342, MS IW-82 The Boeing Co. P. O. Box 3707 Seattle, Washington 98124

Phone: (206) 655-3037

PROJECT ENGINEER:

AERODYNAMIC ANALYSIS ENGINEERS:

R. M. Miller R. D. Knudsen R. J. Montgomery ORGN. B-8342,MS IW-82 MS 0T-55 MS OL-21 The Boeing Co. The Boeing Co. The Boeing Co. P. O. Box 3707 P. O. Box 3707 P. O. Box 3707

Seattle, Wash. 98124 Seattle, Wash. 98124 Seattle, Wash. 98124

Phone: (206) 655-0788 Phone: (206) 342-1344 Phone: (206) 342-1700

DATA MANAGEMENT SERVICES:

Liaison--D. A. Sarver Prepared by Operations -- W. B. Meinders

Approved:

y. L. Glynn, Manager Data Operations

Concurrence '

N. D. Kemp, Manager

Data Management Services

Chrysler Corporation Space Division assumes no responsibility for the data presented other than display characteristics.

MATED AERODYNAMIC CHARACTERISTICS INVESTIGATION

FOR 0.04-SCALE MODEL BOEING 747 CAM/EXTERNAL

TANK (MODEL AX1284 E-5) COMBINATION IN THE

UNIVERSITY OF WASHINGTON AERONAUTICAL LABORATORY

F. K. KIRSTEN WIND TUNNEL (CA11)

by

747 Aerodynamics, 747 Flight Controls and Wind Tunnel Test Staff
The Boeing Co.

ABSTRACT

Experimental investigations of the aerodynamic characteristics of a 0.04-scale ET force model in combination with a 0.04-scale Boeing 747 force model were conducted from Feb. 12-20, 1975, in the University of Washington Aeronautical Laboratory (UWAL) Wind Tunnel. Test purposes were 1) to determine ET airloads for selected configurations and 2) to determine the effectiveness of ET position, incidence, and support structure and 747 vertical stabilizing surfaces on stability, control, and performance of 747/ET combinations. The 747 was tested alone to establish baseline data and to verify test results. Six-component aerodynamic force and moment data were recorded for the 747 CAM and ET combination. Sixcomponent force and moment data were also recorded for the ET, which was mounted on an internal balance supported by the 747. Data were recorded for angles of attack from -4° to +24° in 2° increments and angles of sideslip of 0°, \pm 1°, \pm 2°, \pm 3°. \pm 4°, \pm 6°, \pm 8°, \pm 10°, \pm 12°, \pm 14°, \pm 16°, and +20°. Testing was conducted at Mach 0.15 with dynamic pressure at 36 psf and unit Reynolds number of 1.3×10^6 per foot.

TABLE OF CONTENTS

	Page
ABSTRACT	iii
INDEX OF MODEL FIGURES	2
INDEX OF DATA FIGURES	4
NOMENCLATURE	9
CONFIGURATIONS INVESTIGATED	14
TEST FACILITY DESCRIPTION	16
DATA REDUCTION	18
TABLES	
I. TEST CONDITIONS	19
II. DATASET/RUN NUMBER COLLATION SUMMARY	20
III. MODFL DIMENSIONAL DATA	
A. CARRIER	27
B. EXTERNAL TANK	40
FIGURES	
MODEL	63
DATA	93
APPENDIX	
TABULATED SOURCE DATA	

INDEX OF MODEL FIGURES

Figure	Title	Page
1.	Axis s, stems.	63
2.	Model sketches.	
a.	747-100 Carrier Side and Front Views	64
b.	747-100 Carrier Top View	65
с.	V _{9.1} , V _{9.4} Vertical Tails	66
ď.	H _{15.1} Horizontal Tails	67
е.	C ₁ and C ₂ External Tank Universal Support Assembly	68
f.	747-100 and External Tank	69
g.	747-100, Universal Support Assembly and External Tank	70
h.	Horizontal Tail Vertical Fins	
i.	V ₁₀ , V ₁₁ , V ₁₂ External Tank Fins-Universal Support Assembly	72
j.	Study Group 1-Attach Structure FWD/AFT AT76/AT71	73
k.	Study Group 1-Attach Structure FWD/AFT AT72/AT73	74
1.	Study Group 1-Attach Structure FWD/AFT AT/72.1/AT73.1	75
m.	Study Group IA-Attach Structure FWD/AFT AT76/AT71	76
n.	Study Group 3A-Attach Structure FWD/AFT AT83/AT80	77
3.	Model photographs.	
a.	747-100 Model Installation-Side View	57
b.	747-100 Model Installation-Three-Quarter Front View	79
с.	747-100/External Tank, Study Group CA3-Side View	30
d.	747-100/External Tank, Study Group CA3-Three-Quarter	81

INDEX OF MODEL FIGURES (Concluded)

Figure		Title	Page
	e.	747-100/External Tank, Study Group 1-Three-Quarter Front View	82
	f.	747-100/External Tank, Study Group 1A-Side View	83
	g.	747-100/External Tank, Study Group 3A-Three-Quarter Front View.	84
	h.	747-100/External Tank, Study Group 3A-Side View	85
	i.	747-100/External Tank/Universal Attach Structure-Study Group 5-Three-Quarter Front View	86
	j.	747-100/External Tank/Universal Attach Structure-Study Group 5-Side View	87
	k.	747-100/External Tank/Universal Attach Structure-Study Group 5A-Side View	88
	1.	747-100/External Tank/Universal Attach Structure-Study Group 5A-Three-Quarter Front Yiew	89
	m.	747-100/External Tank/Universal Attach Structure w/ Alternate Fins-Study Group 5A-Side View	90
	n.	747-100/External Tank/Universal Attach Structure w/ Alternate Fins-Study Group 5A-Three-Quarter Front View	91
	ο.	747-100/External Tank/Universal Attach Structure- Study Group 5A-Top View	92

S
F1 GURES
⇗
=
74
٠
ш,
⋖
DATA
\Rightarrow
_
ᄟ
9
-
×
1.1
INDEX
=
_

1.												
	PAGES	29-30	31-32	33-34	35-36	37-38	39-40	41-42	43-44	45-46	47-48	49-50
	PLOTTED COEFFICIENTS SCHEDULE	~	89	æ	œ	œ	œ	©	æ	æ	œ	æ
(Louistant area no views	TITLE	EFFECT OF VERTICAL FIN, 747 ALONE, ALPHAW = 12.79, ELEVATORS = 0.0	RUDDER EFFECTIVENESS, 747 ALONE, ALPHAW = 6.38 ELEVATORS = 0.0	LATDIRECT. CHARAC. OF STUDY CONFIGS. 1, 1A, 3A, 5, 5A, ALPHAW = 6.38, ELEV. = 0.0	EFFECTS OF 747 VERTICAL FINS, CA3 TEST CONF., ALPHAW = 6.38, ELEVATORS = 0.0	RUDDER EFFECTIVENESS, CA3 TEST CONF., ALPHAW = 6.38, ELEVATORS = 0.0	EFFECT OF 747 VERTICAL FINS, CONF. 1, ALPHAW = 6.38, FLEVATORS = 0.0	EFFECT OF VERTICAL FINS, CONF. 1, ALPHAW = 2.08, ELEVATORS = 0.0	EFFECT OF VERTICAL FINS, CONF. 1, ALPHAW = 6.38, ELEVATORS = 0.0	EFFECT OF VERTICAL FINS, CONF. 1, ALPHAW = 12.79, ELEVATORS = 0.0	EFFECT OF ORBITER SUPPORT STRUTS, CONF. 1, ALPHAW = 6.38, ELEVATORS = 0.0	EFFECT OF TANK SUPPORT DIAGONAL BRACES, CONF. 1, ALPHAW = 6.38, ELEV. = 0.0
₩.	FIGURE	18	19	20	21	22	23	24	25	56	27	28

	I
	l
_	
ed	
2	١
rt.	١
ઙ	I
- 15	1
URES	l
3	I
Ξ	I
TA	Ì
DAT	١
PF 0F	l
×	İ
NDEX	l
=	l
	١
	I

	INDEX OF DAIA FIGURES (Continued)		
FIGURE	TITLE	PLOTTED COEFFICIENTS SCHEDULE	PAGES
59	RUDDER EFFECTIVENESS, CONF. 1, ALPHAW = 2.08 ELEVATORS = 0.0	œ	51-52
30	RUDDER EFFECTIVENESS, CONF. 1 (280 SQ. FT. HTF), ALPHAW = 6.38, ELEVATORS = 0.0	œ	53-54
33	RUDDER EFFECTIVENESS, CONF. 1, ALPHAW = 12.79 ELEVATORS = 0.0	œ	55-56
32	RUDDER EFFECTIVENESS, CONF. 1 (200 SQ. FT. HTF), ALPHAM = 6.38, ELEVATORS = 0.0	æ	57-58
33	RUDDER EFFECTIVENESS, CONF. 1A, ALPHAW = 6.38, ELEVATORS = 0.0	æ	09-63
34	EFFECT OF VERTICAL FINS, CONF. 3A, ALPHAW = 6.38, ELEVATORS = 0.0	82	61-62
35	RUDDER EFFECTIVENESS, CONF. 3A, ALPHAW = 6.38, ELEVATORS = 0.0	æ	63-64
3 6	EFFECT OF VERTICAL FINS, CONF. 5, ALPHAW = 2.08, ELEVATORS = 0.0	œ	99-59
37	EFFECT OF VERTICAL FINS, CONF. 5, ALPHAW = 6.38 ELEVATORS = 0.0	æ	89-79
æ	EFFECT OF VERTICAL FINS, CONF. 5A, ALPHAW = 12.79, ELEVATORS = 0.0	മ	02-69
39	EFFECT OF VERTICAL FINS, CONF. 5, ALPHAW = 6.38, ELEVATORS = 0.0	മ	71-72
			-:

	INDLX OF DATA FIGURES (Continued)	₽:0 17E0	
FI GURE NUMBER	TITLE	COEFFICIENTS SCHEDULE	PAGES
40	EFFECT OF VERTICAL FINS, CONF. 5 (WITH LONG BOOMS), ALPHAW = 6.38, ELEV. = 0.0	6 0	73-74
41	EFFECT OF BOOM LENGTH, CONF. 5, ALPHAW = 6.38, ELEVATORS = 0.0	œ	75-76
42	EFFECT OF BOOM FINS, CONF. 5, ALPHAW = 6.38, ELEVATORS = 0.0	æ	77-78
43	EFFECT OF TANK SUP. DIAG. BRACE, CONF. 5 (LONG BOOMS), ALPHAW = 6.38, ELEV. = 0.0	œ	79-80
44	RUDDER EFFECTIVENESS, CONF. 5, ALPHAW = 2.08, ELEVATORS = 0.0	œ	81-82
45	RUDDER EFFECTIVENESS, CONF. 5, ALPHAW = 6.38, ELEVATORS = 0.0	σ	83-84
46	RUDDER EFFECTIVENESS, CONF. 5, ALPHAW = 12.79 ELEVATORS = 0.0	œ	85-86
47	EFFECT OF VERTICAL FINS, CONF. 5A, ALPHAW = 6.38, ELEVATORS = 0.0	ω	87-88
48	RUDDER EFFECTIVENESS, CONF. 5A, ALPHAW = 6.38, ELEVATORS = 0.0	&	89-90
49	EFFECT OF BOOM FINS ON 747 RUDDER CONTROL, CONF. 54, ALPHAW = 6.38, ELEV. = 0.0	æ	91-92
20	EFFECT OF 747 FINS AND HORIZ. TAIL ON TANK LOADS IN PITCH, CONF. 1, RUD = 0.C	U	93

7

*

INDEX OF DATA FIGURES (Concluded) PLOTIED COEFFICIENTS	TITLE PAGES	IK AIRLOADS IN PITCH, CONF. 5, RUDDER = 0.0	ECT 747 FINS, HOR. TAIL ON TANK LOADS IN YAW, $0.095-96$ if. 1, ALPHAW 0.38 , ELEV 0.0	FECT OF ANGLE OF ATTACK ON TANY AIR LOADS IN YAW, $0 97-98$ (F. 1, ELEVATORS = 0.0	FECT OF ANGLE OF ATTACK ON TANK AIR LOADS IN YAM. D 99-100 NF. 5, ELEVATORS = 0.0
		TANK A	EFFECT 747 FINS, PCONF. 1, ALPHAW	EFFECT OF ANGLE OF CONF. 1, ELEVATOR	E.FECT OF ANGLE OF CONF. 5, ELEVATOR
	FIGURE NUMBER	51	25	53	54

PLOTTED COEFFICIENTS SCHEDULE:

) CL, CLM versus ALPHAM, CL versus CLM and CL versus CD

B) CSL, CY, CLN versus BETA

C) CAT, CLMT, CNT versus ALPHAW

D) CAT, CLMT, CNT, CBLT, CYT, CYNT versus BETA

NOMENCLATURE

Symbol	Plot Symbol	Definition
a		speed of sound; m/sec, ft/sec
lpha WDP	ALPHAW	747 wing design plane angle of attack, degrees
αI	ALPHAI	747 wing design plane angle of attack-uncorrected, degrees
β	BETA	747 angle of sideslip, degrees
$^{\beta}I$	BETAI	747 angle of sideslip-uncorrected, degrees
$^{\beta}T$	BETAT	ekternal tank angle of sideslip, degrees
ψ	PSI	angle of yaw, degrees
ΦŢ	RTANK	tank angle of roll, degrees
ρ	RHO	mass density; slugs per ft ³
M	MACH	Mach number
P	PINF	freestream static pressure, psi
P _{T1-4}	PT1-4	tank cavity pressure at locations 1-4, psi
q	Q	dynamic pressure - corrected for blocking-PSF
Q ACT	CACT	dynamic pressure - set in test section-PSF
RN/L	RN/L	unit Reynolds number, per ft.
V		velocity, ft/sec.
C.G.		center of gravity
ь	EREF	747 wing span; inches
MAC	MAC	747 wing mean aerodynamic chord; inches
S	SREF	747 wing area, ft [?]

NOMENCLATURE (Continued)

Symbol	Plot <u>Symbol</u>	Definition
i _T	ITANK	external tank to 747 fuselage reference line angle of incidence degrees
Δi _T	DITANK	angle of incidence correction due to external tank load, degrees
δ _{RU/I}		747 upper/lower rudder deflection angles; degrees
$^{\delta}$ R	RUDDER	747 rudder deflection angle, degrees
$^{\delta}R_{U}$	RUD-U	747 upper rudder deflection angle; degrees
^δ R _L	RUD-L	747 lower rudder deflection angle, degrees
⁶ RT _U	RUDT-U	747 upper rudder tab deflection angle, degrees
^δ RT _L	RUDT-L	747 lower rudder tab deflection angle, degrees
δe	ELEVTR	747 elevator deflection angle, degrees
δe _{IB}	ELV-IB	747 inboard elevator deflection angle, degrees
δ _e OB	ELV-OB	747 outboard elevator deflection angle, degrees -
S _{WDP}	STAB	747 horizontal stabilizer deflection angle with respect to wing design plane; degrees
Х _с	INXC	747 longitudinal station, inches
Yc	INYC	747 lateral station, inches
z _c	INZC	747 vertical station, inches
x _T	INXT	external tank longitudinal station, inches

NOMENCLATURE (Continued)

lodinge	Plot Symbol	Definition	
Y _T	INYT	external tan	k lateral station, inches
z _T	INZT	external tan	k vertical station, inches
Cumbal	UWAL	BODY AXIS DA	
Symbol .	Symbo1	Symbol	Definition
$^{\rm C}$ N	CZ	CN	normal-force coefficient; normal force qS
c_A	СХ	CA	axial-force coefficient; axial force qS
CY	CY	CY	side-force coefficient; side force qS
C _m	CM	CLM	pitching-moment coefficient; pitching moment qS MAC
C _n	CN	CYN	yawing-moment coefficient; yawing moment qSb
c ₁	CR	CBL	Rolling-moment coefficient; rolling moment
	EX	TERNAL TANK BO	DDY AXIS DATA
$^{\rm C}$ N $^{\rm T}$	CZT	CNT	normal-force coefficient; normal force, Tank (747 Ref.)
c_{A_T}	СХТ	CAT	axial-force coefficient; axial force qS qS
c _Y T	СҮТ	CYT	side-force coefficient; side force qS qS
c _m T	CMT	CLMT	pitching-moment coefficient; pitching moment, Tank (747 Ref.) qS MAC
c _{nT}	CNT	CYNT	yawing-moment coefficient; yawing moment qSb tank (747 Ref.)

NOMENCLATURE (Continued)

747 STABILITY AXIS DATA

Symbol	UWAL Symbol	Plot <u>Symbol</u>	<u>Definition</u>
cĽ	CL	CL	lift coefficient; lift qS
c^D	CD	CD	drag coefficient; <u>drag</u> qS
c _Y	CY	СҮ	side-force coefficient; $\frac{\text{side force}}{\text{qS}}$
c _m	CM	CLM	pitching-moment coefficient; pitching moment qS MAC
c _n	CN	CLN	yawing-moment coefficient; yawing moment qSb
c ₁	CR	CSL	rolling-moment coefficient; rolling-moment qSb
	EXT	ERNAL TANK STAB	ILITY AXIS DATA
c ⁱ -L	CLT	CLT	lift coefficient; $\frac{\text{lift}}{\text{qS}}$, tank (747 Ref.)
c _{DT}	CDT	CDT	drag coefficient; $\frac{drag}{qS}$, tank (747 Ref.)
$c_{\gamma_{T}}$	CYT	CYT	side-force coefficient; side force tank (747 Ref.)
c _m T	СМТ	CLMT	pitching-moment coefficient; pitching moment, tank (747 Ref.) qS MAC
$^{C}n_T$	CNT	CLNT	yawing-moment coefficient; yawing moment (747 Ref.) qSb

NOMENCLATURE (Concluded)

Symbo1	UWAL Symbol	Plot Symbol	Definition
c ₁ T	CRT	CBI.T	rolling moment coefficient; rolling moment, Tank (747 Ref.) qSb

EXTERNAL TANK CAVITY PRESSURES

Symbol	UWAL Symbol	Plot Symbol	Description
C _P T ₁₋₄	CPT1-4	DP1-4	external tank cavity pressure coefficient at locations 1 through 4; PT1-4 - P q
XMRP			longitudinal moment reference center, in. X*
YMRP			lateral moment reference center, in. Y*
ZMRP			vertical moment reference center, in. Z*

^{*} Note: Postscript indicates if carrier (C) or tank (T)

CONFIGURATIONS INVESTIGATED

The test vehicle consisted of a 0.04-scale model of the Boeing 747 CAM and a 0.04-scale model of the Space Shuttle Vehicle External Tank. The 747 was tested separately and in the mated configuration with the External Tank. Six-component External Tank force data were obtained for two test configurations with a Boeing six-component internal balance (number 617A). The 747 model was mounted on the UWAL external balance, which measures six-component force data in the wind axis.

Testing was conducted over an angle of attack range of -4 to 24 degrees in 2-degree increments. Sideslip angles were -4 to +4 degrees in one-degree increments, from ±4° to ±16 degrees in 2-degree increments and ±20 degrees at angles of attack of 2.1, 6.4, and 12.8 degrees. The 747 stabilizer deflections of 0, -2 and -4 degrees were tested. The 747 rudder deflections were set at 0 degrees, 0/25 degrees, 25/0 degrees, and 25/25 degrees for the upper and lower sections, respectively. The 747 elevators were tested at 0, 17, and -23 degrees. Ailerons and spoilers were fixed at zero degree. The tank was positioned on the 747 for study groups CA3, 1, 1A, 5, and 5A. External Tank force and moment data were taken with study groups 1 and 5. Study group 1A was at-5-degree incidence and study group 3A was at +3-degree incidence. All other study groups were tested at zero-degree incidence.

Model configuration notation is summarized below:

 $K_1 = B_{29A} W_{45}$

M25/26 N57/58 T14

CONFIGURATIONS INVESTIGATED (Concluded)

T₂₈ = External tank without Orbiter attach struts

 $T_{28.1}$ = External tank with Orbiter attach struts installed

A complete description of individual model components is given in Table III.

TEST FACILITY DESCRIPTION

The UWAL tunnel is a closed circuit, double return type with an 8×12 foot test section vented to the atmosphere. Two synchronized fans, one in each return duct, are electrically driven and can develop wind velocities up to 250 mph (dynamic pressures up to 160 psf).

The balance system located directly below the test section is capable of measuring six components simultaneously. The method of model mounting, along with the balance system, allows testing over a wide range of pitch and yaw angles with rapid positioning possible for any combination of angles. The balance is designed to measure all forces and moments with respect to the wind axis at the balance-moment center located on the tunnel axis. The forces and moments are then transmitted to an automatic read-out system where the data are simultaneously punched out on IBM cards, typed on a data sheet, and plotted on automatic plotters. If desired, the balance support strut and fairing can be removed from the test section so that the test section is clear of all obstructions.

The automatic read-out equipment is capable of recording 3 six-component data points per minute. The forces and moments are separated by the balance and transmitted to the automatic read-out system, then simultaneously punched out on IBM cards, and typed out on a data sheet. Any four of the six components may be plotted on automatic plotters.

Data are then submitted to a CDC 6400 computer using a UWAL program designed to include all corrections which are to be made to the data.

TEST FACILITY DESCRIPTION (Concluded)

The output from the computer consists of another set of IBM cards on which the final, corrected coefficients are punched. These cards are then printed out using an IBM listing machine and can be used directly for data comparison or used for plotting purposes.

DATA REDUCTION

The aerodynamic forces and moments measured by the external and internal balances were reduced to coefficient form in the body and stability axis systems utilizing the following reference dimensions:

Symbol	Definition	Model Scale	Full Scale
SREF	area 747 wing, ft ²	8.80	5500
BREF	span 747 wing, in.	93.92	2348
LREF	mean aerodynamic chord wing, in.	13.112	327.8
	747 moment reference center, in. X_{C}	53.596	1339.91
	747 moment reference center, in. $Z_{\rm C}$	7.63	190.75
	tank moment reference center, in. X_{T}	53.92	1348.00
	tank moment reference center, in. $Z_{\overline{1}}$	16.08	402.00

Moment data for the mated configuration were reduced about the 0.25 MAC of the 747 wing. External Tank six-component force data for study groups 1 and 5 were reduced to coefficient form about the tank MRC using 747 CAM reference areas and lengths.

The table below lists corresponding $\mathbf{X}_{\mathbf{C}}$ and $\mathbf{Z}_{\mathbf{C}}$ stations of the tank MRC.

Study group No.	X - (in.) Full Scale	X _c - (in.) <u>Model Scale</u>	Z - (in.) Füll Scale	Z _C - (in.) <u>Model Scale</u>
1	1540.00	61.60	705.00	28. ∠0
5	1520.025	60.80	649.00	25.96

Four external tank cavity pressures measured during these tests show that there was negligible airflow through the tank, so corrections to the balance measurements were not needed.

EST: UWAL 1146			DATE : Post-Test
	TEST CO	INDITIONS	
	REYNOLDS NUMBER	DYNAMIC PRESSURE	STAGNATION TEMPERATURE
MACH NUMBER	(per foot)	(pounds/sq. inch)	(degrees Fahrenheit)
0.15	$1.3 \times 10^6/ft$.243	70
i			
		+	
		 	+
	Main Balance - U	WAI Fxternal	
BALANCE UTILIZED:		Boeing 6172A Inter	na1
	CAPACITY. Main Bolance	CAPACITY: Tank Balance	COEFFICIENT TOLERANCE
NF	2500 lb	300_1b	
SF	750 lb	50 lb	
AF	50_1b		
PM	_5000_in-1b	1000 in-1b	
RM	5000_in-lb	_600_in-lh	
YM	_5000_in-lb	1550 in-lb	
meas 2. The	7" model was mounter sured 747 and 747 + tank had the 6172A sured tank loads who	tank loads. balance mounted i	in it and

TABLE II.

							•						-						Г
E	TEST: U	UWAL 1146			DAT	A SET	/RUN	NON	DATA SET RUN NUMBER COLLATION SUMMARY	LLATIO	N SUMM	ARY	<u>-</u> 1	DATE:	: 12-20	FE 8	(975		
Ц			-					1	3 + 3 * 6 * 6	2,7,7,00	1			Q Z		AACT TOTAL	HOMBERT (PLF)	1	_
_	DATA SET		š	SCHO.		1		1	PAKAME I ENS/ VALUES	#3/VOL0			I	Ö	١.		-	1	,
ō	DENTIFIER	CONFIGURATION	O	s zg	STAB	3	23 24	I TANK RIDAN	1					S NO	3	+	╁	T	
Lã	PE.0 001	KIV9.1	⋖		مود	مود	%	0F F	OFF					-	_	+	\dashv	T	
	200	+	4	0	٥	%	%	7	7					-	2	+	\dashv	T	
	003	+-	Ø	0	2-	7	7	7	7					-	n	+	-	T	_
	8	7	2	80	-2.07	7	7	7	۲					-	4	+	+	7	
<u>L</u>	88	7	9	8	7	7	7	7	7					-	ß	-	+	T	
	8	7	21	B	7	7	7	7	1					-	و	+	+		7) (
	2007	7	9	8	7	7	%2	7	7					-	7	+	+	1	, 7 H
	800	7	9	8	7	7	52/52	7	7					-	8	+	1	1	274 6
L,	600	7	9	8	7	3	52/0	7	7					-	6		1		1174
1	010	KIV9.1 H 15.6	4	0	767	7	%	7	7	_				_	ō				BE R
	-	+	-	0	7	3%	7	7	7					-	=				
	0 12	KIV4.1 H 15.1	⋖	0	-1.90		7	7	7	-				-	12		-	7	
	013	7	₹	0	4.92	17/11	7	7	7					-	13	-	-		
	\$io	KIV4.1 H.5.6	a	٥	7	7	1	7	7					-	<u>+</u>			T	
	210	KIWIHIS.I	4	٥	F. T	0/0	7	7	7					-	15	+	+	T	
	910	KIHIS.I	2	B	-1.87	٤.	OFF	7	7					-	5		-		
<u> </u>	210	7	9	8	7	7	7	7	7					-	1.7		+	T	
	018	7	12	8	7	7	7	7	7	_	_				6	\dashv	1	7	T
L		. 61	5		25		3.6		3.	43	49	6	\$5		ī				٠,
U	CT 7D	CD. CLM.	ć	:	S	, ,	65,1	- F	1111	1	4	4	4	1	1862	1 BLPHAWKETA	ETA	भी	J
		A (ALPURT) = . 4	2 0, 2		8	6, 8, 10, 12, 14, 16, 18,	ر ج ک	181.	18, 20, 22, 24	3 -	X.	K 1 = 821A W45 M25/26 N37/58 TIY	W#51	N 25/26	, N57/5		. A F	; 	,
	, 1	OL " B(RETAT) = -20 -(6 -(4 -)	- 9		2-10	9-8	-	-2-1	2-10-8-6-4-3-2-1,01,2,3,4,6,8 10,12,14,16,20	4.08	10, 12, 14	16,20							
=	I						1	1	1										

ORIGINAL PAGE IS OF POOR QUALITY

. 1									7.1	5 T F	41N	·. w	ŧ+ €									.*	1	L _a	
1 #		PSF																				'	╡		
	1975	\sim	H		\dashv		+		\dashv	-	\dashv		\dashv	\dashv		\dashv	\dashv	-	-		\dashv	İ	4	3	
	8 19	30387																					4	• •	
	FEI	4																					4		
	20	4	5		-			8	+	5		7	80	6	0		01	W)	_	10	9]	3	
	-21 :	SACT		ē	20	2	22	7	7	2	26	2	2	2	ñ	M	32	33	34	35	3(4	L	
	DATE	O.Z	PUNS	-	_	-	-		-	-	-	-	-	-	-	-	-	-	-	-	_		}		
	اد		H															\dashv				. ن	-		
			Ц																			13	1		
	١RΥ																						1		
•	MM		H																			6.9	1	1	
pan	COLLATION SUMMARY	ES	Ц															_					1		1 1
Continued	4 T 10	VALUES																				4.3	4		
S.) 		43	3					А													4	111		
·		MET	mark Silely	CA3	,	7	7	,	18	,	`	7	,	,	1	7	,	,	7	7	_		1		
	MBE	PARAMETERS/	Ē	081	3	7	7	7	0	0	7	7	7	7	7	7	7	7	7	7	7	۲.	1	ر 3 و	
TABLE	RUN NUMBER		TPANK	0	7	7	7	1	٦-	0	7	7	5-	١	0	7	7	7	7	7	7		•	0611	
	J.		7/2	OFF	%	7	7	53/52	7	7	%	7	7	7	7	7	,	7	7	7	7	<u>۔</u>	-	Ž.	
	SET		35.		7	7	,	7	1	7	7	7	7	7	7	7	7	7	7	7	7				
	A 7.4		•	9	1	88	7	7	7	7	7	7	7	\	7	7	7	٠	7	7	7		-		
	DA	٥	15	8	80	8	8	8	8	3	8	0	0	8	8	8	B	8	8	B	8	÷.	-		
		SCHD.	10		9	9	9	و	9	9	ی	V	Q	9	و	9	9	٠,	2	و	9		:		
			.	87		_				182					TO Z	_	_			_		2			
			2 0	KIH15.1 AT38AT37T28	KI HIS I V9. I AT 38 AT 37 T 28	KIH 16.6 V4. 1AT38 AT 37 TEB	KIHIS 6 V94 AT3BAT 37T 28		KINIS.6VS+AT7£AT71T28.1	KIHIS & VE. 4 ATTO ATTI 1281			KIH 16.679.4 AT 76 AT 717281		KIHIS.TV9.4AT70AT71T281	KIHIS.II V9.4AT70AT71T28.	KIHISJIV9.4AT72AT73T28.	KIRIS IIV9.4AT72.IAT721T291	KT#16.6V9.4AT10AT71 728	KIHIS 6 14.1 A 770 A 771 T28.1	12				
			CONFIGURATION	BA	38 A	38.4	738A		7£ A	TOA			1776		1077	170A	172.	172.11	170	170 A	VQL.		:		
	- - - - - -		20.0	AT	9.1A	4. IA1	4.4 A	7	S. A.	4.4 A	7	7	19:47	7	4 + b	9.4A	9.4A	9.4A	4 ¥	V D	AID	7	-		1
			2	15.1	V 1.2	15.6	79.5		¥ 9.9	7.9.2			19.6		15.77	711.5	AITS	VII.2	Sev	SEV	5.17				
				Ī	포	=======================================	조		Σ.	X H						Ē	쥬				KIHIS I UP. I ATTOATTI T28.1] .	-	1	30. 4.
₩a +	JUWAL	45	. E	0.0	020	120	220	620	429	025	970	720	820	620	030	031	032	033	420	035	036		-		B 3E 3
*	12	23 47 40	CENTIFIER	860019				L	L	0	_	Ľ	Ľ	" 	_	Ľ		_	Ľ	°	L"		=		j
ORIGINAL P OF POOR QU	AGE	IS	ο	ď						L												L_		<u> </u>	
OF POR QI	747 7	 M 2	•										2	,											

TABLE II. - Continued.

) 	•									-	1
TE	TEST: UWAL	WAL 1146			DATA	SET	RUN	RUN NUMBER	BER	COLL	COLLATION SUMMARY	UMMA	4⊀	<u>مَ</u>	DATE:	: 12-20 FEB	FEB	1975	15	
				Ì									İ	-	_					-
ò	DATA SET		SCHD	HO.				٥	PARAMET	ETERS/V	VALUES				ou Ou		*********		2	-
JOE	DENTIFIER	CONFIGURATION	Īο	Ør	5786	18/00	7%	TANK	PILE	STANK PIRMS SUBY				<u>"</u>		35				-7
RE	RG 0037	KI 415.1 AT70AT71728.1	9	8	-1:%	%	950	°	0	7					_	37				
	038	KI UP. ATTOATTITEB.	4	0	920	ţ	%	٥	0	1					-	38				
	039	KIVEINIS. SCZVII ATBEATBY TAP	4	0	411-	%	%	0	٥	5					-	39				
	\$	١	૭	0	7	7	7	2	7	7					_	3				
	उं	KIVT.IHE.GCIVIIATBEATOR	છ	8	7	7	7	7	7	7					-	Ŧ				
	240	7	4	0	7	7	7	7	7	1					1	42				T F
	043	7	૭	8	7	7	33	7	7	7						43				51 F
	\$	KILPIHIS &CIVIZATE & ATTENT	૭	8	7	7	0/0	7	7	7					_	7				、 <u>`</u>
	946	KIVAIMISIECI ATBEATET TEEL	O	B	7	7	7	7	7	1					_	45				W.1W
	9.50	KINP.III.S.I.C.I ATS6ATS7 [23.1	و	a)	7	7	7	7	7	7					_	4				F+E F+
	043	047 KI HIG! CI AT86AT8773.	و	8	د	7	0 F F	7	7	7					-	47				
	248	CHE KIV9.1 CI ATBEATSTEE	4	0	376	OFF	%	7	7	7					_	2	- 			 -
	640	KIVY.I CI AT90AT91TAL	4	0	7	7	7	7	7	5A					_	49				
	020	OSP KI HIGICI ATSOATS: TOU	૭	8	-1.92	9/6	OFF	7	7	1					_	50				
	050	OSI KIVI HISI CIATBOATSI ZELI	9	8	7	7	0/0	7	7	1					_	īs				
	250	KIV?!HIS.6CIAT96AT91T28!	9	8	7	7	7	7	į	١					_	29	1			
	263	KIMIHIS.GVIZCIABOABITZB	9	В	7	7)	ì	7	'					_	53				
	故	KINT HE EVILCIATEDATED	9	8	,	7	7	7	7	7						54.	_		ļ	4
		- 13		•			-		_		1.3	54		3.5						•
Ŀ	1 1 1		}	1	1	1	1	1	1	Link	4	1	4	=	4	4	1	1	4	4
		1					,	•								آ با	i.	ع	~• •	;
	: 0									1	•) 		! !
	5. ± 5.																			

TAPLE II. - Continued.

*

DATA SET CONFIGURATION C	1	15 . 15	2/81 1146		1 '	1 1							200	DATE	-21:	-20 FE	EB 1975	75	
CONFIGURATION SCOLE SCOLE CONFIGURATION SCOLE SCOL	1				ָ ר)E	NOX I			OLL.	A 110%	UMMART						
CONTROLARATION Or p. prine W. P. P. P. P. P. P. P. P. P. P. P. P. P.	L	ATA SET		Š	ė				۵	ARAWET	ERS	VALUES		Qi 2					
KINYANGANGATAN A TO 182 9/6 0 0 5R 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 1 5 5 5 1 5 5 5 1 5 5 5 1 5 5 5 1 5 5 5 1 5 5 5 1 5 5 5 5 1 5 5 5 5 1 5 5 5 5 1 5 5 5 5 1 5 5 5 5 1 5 5 5 5 5 1 5	io.	ENTIFIER		Ϊ́ο			3		2	E T		NAC.		AC.	Ц				
	8	55000	KIVY, IRIS LYIIC, A BOATSI TER.	A	_	7		9%	0	0		5A		-	52	10	- 		
High Attainable Table G C C C C C C C C C		950	7		8	_		27/5	1	1		1		_	36				
		057			8	7	7	7	,	7		3		-	157				
HistoricalPookTeatral G				-	8	7	7	7	1	7	-	1		-	58		_	_	
HISCATESTATESTIS G B		650	KIVT.I HIS & VIJ CI ATBOATSITZE.	-	-	7		7	7		Fes	À			59				
HHGG AT83AT80T29] 6 B				-	8	7		%	7	7		١			8		_	_	7 E
C		190	KIVE-HIS-6 AT83ATSDT291		8	7		7	3	7		ЗЯ			/9				STF
+HK,1ZAT83AT80T2a1 6 B		290	٦	-	0	7	1	,	7	7		7		-	29		_		NUN
HHS.LATB3ATB0T2a1 6 B L L C L L L L L L L L L L L L L L L L		063	7	_	B	7		2%	7	7		7		-	63				NUM
HIGANTSATBOTEAL G G C C C C C C C C		190	KIV9. + HIS. 12. A TB3 A TB0 T28.1		8	7	—	%	7	7		1		_	64				ч 3в
HIS.6ATB3ATB0T2a1 6 E		290	٦	-	0	7	7	7	7	7		7		-	9	-			`,
H I I I I I I I I I I I I F		990	KIV9.4 HISJI ATB3 ATB0T28J	-		1	7	۲	7	7		`		_	3				
H S. AT83AT80T28, G B C C C C C C C C C		790	KIV9.1 H IS.6 AT83 AT80728.1	 	Ø	7	1	7	7	7		1			6,				
		890	KI V9.1 H 15.1 AT83AT80T28.1	9	8	7	7	د	,	7	-	7		-	29		-		
1. ATB3AT80T28.1 A O off off off off off off off off off o		690	Ā	9	8	7		FF	7	7		1		-	3				
5.1 AT70AT71728.1 A B 1.93 % OFF \(\begin{array}{c c c c c c c c c c c c c c c c c c c		000	AT83AT80 T29.1				1 1	%	7	7		7		-	2				
5.1 AT70 AT71 T28.1 6 B H.#3 % OFF L L T L T L T L L L		072	KIV9.1 AT 10 AT 71 T28.1		0	7	7	7	0	2		-		-	72		_		
13 19 25 31 37 43 49 55 ti		073		Ī		8	0	FF	7	7	_	7		긔	7.3		_		_
COEFFICENTS COEFFICENTS					2.5	ام.	"	_		3.	4	61	5	v	-				
	1	1		1	1	1	1	7	4	1	4	4 4 4 4	144444	4	4	4 1		٠ ا	- 4 ()
53-C3HD9		90				į		3			ı	•			,				4
		SCHEDU	53-7																

TABLE II. - Continued.

TEST: UWAL	ı														Annual continues					
OPATA SET CONFIGURATION OPATA SET						SATA		/RUN	NOM	BER		N SUMM	IARY			-21:				
CONFIGURATION CONFIGURATIO	لــا															-				Ţ
Countries Control of All Control o	<u> </u>	DATASE		SC	HD.				۵	ARAM	ETERS/VALL	JES			o O U	_	₹ 10 1	WADEP8		~
1		DENTIFIE		å	$g_{\mathbf{I}}$		1000		LTABEK	RTANK	Sway Skoup				PUNS					_
1		16,0 07		8			-	OFF	٥	0	1				-	74				
Contraction Contraction		5 07.		71	82	I '	7	7	7	7	7					15				
1		-		-	8	3	7	%	,	7	7				1	22				
1		-		و	8	7	7	7	7	7	7				-	8/				
080				5	8	7	7	7	1	7	7				-	79		_		
OB1	JAI			4	0	7		7	,	7	7				-	80				ΤE
083	T			61	8	7		52/52	7	7	1				-	iæ				5 T F
084	Z,	_		0	Ø	7	7	Ĩ	1	į	7				_	92				₹UN
086	<u> </u>	08		2	8	7		7	1	7	7				-	83				MUM
086		380		و	B	7		%2	7	1	7				~	84				966
C	<u> </u>	08		7	7		1	27/0	1	1	1				-	85				ς .
L	1	086		4		-1.90	+17/14	0/0	7	7	7				-	86				
History Tebric A	<u></u>	08,		∢	0	١.	27/22		7	1	7				-	87		_		
HISTATOATATZBSI		086		¢		+.02	%	%	7	7	7				-	88				
11H15.74Tb ATh 1728.1 2 8 -2.0 -1 -1 -1 90 90 L 6 B -1.36 -1 -1 -1 -1 91 1 91 -1 13 13 13 31 37 43 45 55 61 C7 75 13 19 32 43 55 61 C7 75 11 12 12 12 12	L	\$ 8 0		A	0	0.4-	1	7	7	7	7				-	83				
13 19 25 41 6 6 7 7 7 7 83 49 55 61 67 75 15 11 11 11 11 11 11 11 11 11 11 11 11		760		2		-2.0	7	1	,	1	7					96				
13 19 25 31 37 49 55 61 67 75 15 11 11 11 11 11 11 11 11 11 11 11 11	L	160		૭		-1.36	7	7	7	7	7				-	16				
13 19 25 31 37 45 55 EI C7 75 LEALLILLIAILILURURURURURURURURURURURURURURURURURUR		:60		12	8	7	7	7	3	7	7				_	92		_		4
COEFFICENTS COEFFICENTS					,	Ē.)		3.1		37	43	49		9£		Ę.		.5		
COEFFICENTS (CARILI (C.AR.)		1111]	1	1	+	ر ا	4	1		4-1-4-4	1	4	1	1	4	1	1	1
a o≈ b Scheoules									ŭ.	ш						õ	Œ		çi	کن ج
SCHEDULES	-	8	8 ±0																	
	_	SCHE	sonres																	

ORIGINAL PAGE IS OF POOR QUALITY

CONFIGURATION OF BY STAPE (CONFIGURATION OF BY STAPE) (WHIS.GW"CIATESATES 12 B -1.96 (WHIS.GW"CIATESATES 2 B L L L L L L B B L L L L B B L L L L	TABLE II Continue	SET/RUN NUMBER COLLATION SUMMARY	PARAMETERS/VALUES		0/6	7	Se - 35	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	1 102	1 103 1 1 103 1 1 103 1 1 103 1 1 103 1 1 1 1	1 104	201 - 105	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	701 1 107	12/2 0/0 108	2/3	011 - 1 10 / 1 / 1 / 1 / 2 / 2 / 2 / 3 / 3 / 3 / 3 / 3 / 3 / 3		7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		31 37 43 49 55 €' '`	and restrict the same transfer and transfer and transfer and transfer and transfer and transfer and transfer a	
1146 DATA SET/RUN NUMBER CO DATA SET/RUN	ed.	N SUMMARY	53																				49	-	
THE C DATA SET/RUN NU SCHO. ONFIGURATION O	- {		AMETERS/VALU	MERCHE	1	_				\mathbb{H}				,	-					,	,	\dashv			,
	TABLE I	JN NUMBE			0	7		-				7	7		 	7	7	7			7		3.	4 4 4 4	ن د
1146 DATA ONFIGURATION ONFIG		ET/RL					-	 		-	 			-	-	7/2/	10/0	7					31	1	
1146 ONFIGURATION SCHO. 415.1ATYOATY1728.1 12 B 4 4 5 1 6 B 6 B 6 B 6 B 6 B 6 B 6 B 6 B 6 B 6		¥ -		į	9,5	Τ.	├-	 	├	-	-	-			-	i .		1.97	0.0		 -		Ş	1	
1146 ONFIGURATION 415.1ATYOATY 178.1 L L L L L L L L L L L L L			Ĭ.	8	8	82	Ø	0	100	8	Ø	Ø	B	Ø	W	0	0	0	0	0	Ø	8			
(20) FIGURATION (20) FIGURATION (2) (14.6) (2) (14.6) (3) (4.6) (4			Sc	8	2	9	7	+	+	0	2	0	2	21	8	9	₫	Ø	4	₹	-	0			
	1	ı		CONFIGURATION	K, UP.1 HIS. I ATTO ATT. 128.1	7	7	KIVRIHIS.6V"CI ATP. AIBT [28.1	7	7	7	7	7	7	7	7	7	7	7	7	KIMIHIS.6CI ATBGATB7 T28.	7			

PALT ACH MUMBERS (PSF) 1[. AP : 2 DATE: 12-20 FEB 1975 T.AR.T. 124 125 123 <u>+</u> 15 <u>8</u> <u>=</u> 120 122 = 14 35 121 SOZ C 202 C 202 S 203 DATA SET/RUN NUMBER COLLATION SUMMARY TABLE II. - Concluded. 43 RES ITANK MANGETURY 7 1 1 1 7 1 7 7 1 1 COEFFICENTS 7 7 1 7 7 7 ì 1 0 7 1 1 1 7 7 0 7 10/0 % 7 OFF 1 7 7 OFF % % 1 STA3 98% 7 7 7 1) 7 1 子子 -2.0 7 7 7 7 1 7 $\alpha_{\rm r}$ $\beta_{\rm r}$ 8 Ø Ø 0 8 Ø 囟 12 B KIM.IHIS.I CIAT86AT87 T28.1 12 13 8 Ø Ø 12 đ و 4 و ٥ હ 4 و KILMIN HIS GCZVII ATBGĀTBĪTBI KIV9JH15.6CZUTOATBCATB7TZ9.1 KING.I HIS. I CZATOGATB7 TZB.1 KIV9.1415.6C2AT8CAT87728.1 KIV9,1 CARTSCATSTIZS. KIVY, INIS. GCIATE CATE 1728.1 ÷ KI HIS. I CI ATBGATBTZB.I CONFIGURATION 176 7 3 TEST: UWAL SCHEDOLES 82 t C OF POOR QUALITY DATA SET 123 124 125 7 122 8

TEST RUNINUMBERS

TABLE IIIa MODEL DIMENSIONAL DATA

A. Carrier MODEL COMPONENT: BODY - B20A	· · · · · · · · · · · · · · · · · · ·	-
GENERAL DESCRIPTIONFuselage_for	the 747-100/200 at	rolune.
747 MODEL SCALE: 0.040	MODET.:	1065
DRAWING NUMBER: 65-71436		
DIMENSIONS:	FULL SCALE Feet	MODEL SCALE Inches
Length	_225.17	_108.08
Max Width	22.71	10.90
Max Depth Height	25.52	12.25
Fineness Ratio	10.57	10.57
Area		
Max. Cross-Sectional		
Planform		
Wetted	Company of the Compan	
Base		•

HODEL COMPONENT: HORIZONTAL - H15.1		
GENERAL DESCRIPTION: Swept horizontal tail	on the fuselage at	MS 102.56.
WL 12.45, and HBL 6.98 with variable inci-		
УП. 11.70).		
747 MODEL SCILE: 0.040	MODEL: 1065	
DRAWING NUMBER: 65-74129		
DIMENSIONS:	FULL-SCALE (FT)	MODEL SCALE (IN.)
TOTAL DATA		
Area ² -		
Planform	1470.0	2.35 SC. FT.
Wetted		
Span (equivalent) As pect Ratio	72.75	3/1-25
Rate of Taper	3-6	_3.6
Taper Ratio	0.25	0.25
Dighedral Angle, degrees	7	7
Incidence Angle, degrees	VARIABLE	VARIABLE
Aerodynamic Twist, degrees	•	
Toe-In Angle		
Cant Angle	•	**************************************
Sweep Back Angles, degrees	١	1 =
Leading Edge	<u>43</u>	113
Trailing Edge 0.25 Element Line	37.5	37 C
Chords:		37.5
Root (Wing(Stalx(0:0))	32.33	15.520
Tip, (equivalent)	7.92	3.800
MAC	271.6 IN.	1.0.864
Fus. Sta. of .25 MAC	2564 IN.	102.56
W.P. of .25 MAC	311.25 IN.	1245
B.L. of .25 MAC		
Airfoil Section Root		
Tip		
EXPOSED DATA		
Area		
Span, (equivalent)	····	
Aspect Ratio	***************************************	
Taper Ratio Chords	***************************************	-
Chords Root		
Tip		************
MAC		
Fus. Sta. of .25 M/C		
W.P. of .25 MAC	**************************************	
B.L. of .25 MAC		

MODEL COMPONENT: HORIZOITEME - H15.6

GENERAL DESCRIPTION: N15.1 with 200 sq. ft. tip fins mounted on the

horizontal at HBL 17.22 in vertical plane at BBL 17.09.

747 MODEL SCALE: 0.040

MODEL: 1065, 1284

DRAVING NO.: 5.0. 1284-78, -80, 70.

 DIMENSIONS: (One fin)
 FULL SCALE (FT)
 MODEL SCALE (IN.)

 Area² 200
 46.1

 Chord
 9.5½
 4.582

 Span
 20.96
 10.06

 Max. thickness
 0.86
 0.412

MODEL COMPONENT: HORIZONTAL - H15.7

GENERAL DESCRIPTION: $H_{15.1}$ with 280 eq. ft. tip fins mounted on

the horizontal at HBL 17.22 in vertical plane at BBL 17.09

DRAWING NO.: S.O. 1284-76, -78, -80

747 MODEL SCALE: 0.040

MODEL: 1065, 1284

 DIMENSIONS: (One fin)
 FULL SCALE (FT.)
 MODEL SCALE (IN.)

 Area2
 280.0
 64.51

 Chord
 11.29
 5.421

 Span
 24.79
 11.90

 Max. thickness
 1.01
 0.486

MODEL DIMENSIONAL DATA

MODEL COMPONENT: Horizontal Tail: GENERAL DESCRIPTION: H15.1 with 40		
DRAWING NUMBERSO 1284 - 107, - 1	15	
MODEL: 1065, 1284		•
MODEL SCALE: 0.04	• •	
DIMENSIONS (One fin)	FULL SCALE	MODEL SCALE
Area (ft ²)	400	0.64
Span (equivalent) ~ INS.	355.98	14.226
Inb'd equivalent chord		· .
Outb'd equivalent chord	•	·.
Ratio movable surface chord/ total surface chord	•	
At Inb'd equiv. chord		
At Outb'd equiv. chord	***************************************	
Sweep Back Angles, degrees	0	. 0
Leading Edge		
Trailing Edge	Orgálisa tampinnuluminnususulumin	•
Hingeline	***************************************	
Area Moment (Normal to hinge line)	
CHORD = MAC INCHES	161.83	6.478
Aspect Ratio .	2.2	2.2
Taper Ratio	1.0	1.0

- TABLE IIIa (Cont'd) · MODEL DIMENSIONAL DATA

MODEL COMPONENT : Horizontal Tail -	H15.12	· · · · · · · · · · · · · · · · · · ·		
GENERAL DESCRIPTION : HIS.I WITH 200	SQ FT T	IP FINS	MOUNTED	ON THE
HORIZONTAL AT HBL 17.22 IN VERTICAL	PLANE AT	BBL I	709 AND	WITH
280 SQ FT VERTICA - FINS MOUNTED I	NBOARD	AT HBL	- 11.64 11	J
VERTICAL PLANE AT BBL 11.55		•		
DRAWING NUMBER 50. 1284-10,-78,-80,-	76	•••		
MODEL: 1065, 1284				
MODEL SCALE: 0.04	• •	•		
DIMENSIONS (One fin)	FULL S	CALE	MODEL !	
Area ²	200	280	46.1	64.51
Chord	. 4 54	11.29	4,582	5.421
Span (equivalent)	20,96	24,79	10.06	11.90
Max thickness Inb'd equivalent chord	0,86	1.01	.412	. 0.486
Outb'd equivalent chord	•			·.
Ratio movable surface chord/ total surface chord		•		
At Inb'd equiv. chord	•			
At Outb'd equiv. chord	*****	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Sweep Bock Angles, degrees			•	
Leading Edge		•	 	
Troiling Edge	•			
Hingeline				
Area Moment (Normal to hinge line)				•

ORIGINAL PAGE IS OF POOR QUALITY

GENERAL DESCRIPTION: Inboard micelle st	rut located at WBL 18	.80 at
the wing leading edge.		
747 MODEL SCALE: 0.040 DRAWING NO: S. 0. 1065-31, -42, -46	MODEL: 1065	
DIMENSIONS:	FULL SCALE	MODEL SCILE
Canted inboard, deg.	. 2 .	2
For use with		N ₅₇
WHL location		18.800

MODEL COMPONENT: NACELLE TRUT - M25

MODEL COMPONENT: NACELLE STRUT - M26

GENERAL DESCRIPTION: Outboard meetle strut located at the wing

leading edge.

747 MODEL SCALE: 0.040 MODEL: 1065

DRAWING NO.: 3.0. 1065-31, -42, -46, -350

DIMENSIONS: FULL SCALE MODEL SCALE

Canted inboard, deg. 2 2

WHL location 33.360

For use with N57

MODEL COMPONENT : MACELLES - N	57	
GENERAL DESCRIPTION Flow-through		
on micelle strut at VML 19.761. No	elle centerline cant	ed intourd 20.
Inlet tilted 40 down with respect to		
747 MODEL DCALE: 0.040	. MODEL 1065	
DRAWING NUMBER:S.O. 1065-15,	46 , -314, -315	-
DIMENSIONS:	FULL SCALE (ft)	MODEL SCALE (in.)
∫ Cow1	8.6	4.136
Length { Cowl + Engine	17.9	2 .6
Mox Diameter	8.5	4.1
Hilite Diameter	7.3	3.502
Fineness Ratio		
Area		-
Max. Cross-Sectional		
Planform	•	Carabana and Carab
Weited		
Base		

NAL PAGE IN POOR QUALITY

TABLE IIIa (Contid)

MODEL COMPONENT NACELILES 1158		
GENERAL DESCRIPTION :Flow-through	outboard 747 -133 au	<u>rella l'moun</u> ted
on strut at MBL 33.900. Nicelle cen	terline canted 20 inb	ourd.
Inlet tilted 40 down with respect to e	engine centerline.	
MODEL SCILL: 0.040 747	MODUL: 1065	
DRAWING NUMBER:	-314,-315	
•		
DIMENSIONS :	FULL SCALE (ft)	NODEL SCALE (in.)
Cowl	8.6	4.136
Length Cowl + Engine	17.9	8.6
MoxDiameter	8.5	4.1
Hilite Diameter	7.3	3.502
Fineness Ratio		
Area ,		
Max. Cross-Sectional		
Planform		
Wetted		
Base		

GENERAL DESCRIPTION: Fairings located at VBL 9.408, 14.120, 23.299 and

MODEL COMPONENT: FLAP TRACK FAIRING - T14

29.753. MODEL: 1065 747 MODEL SCALE: 0.040 DRAWING NO.: 5.0. 1065-84, -124, -135 MODEL SCALE (IN) DIMENSIONS: FULL SCALE (FT) 9.408 WBL locations 14.120 23.399 29.753 Use with clean wing and F8.1 Fg 2 F9.1

OF ICOL QUALITY

GENERAL DESCRIPTION: Supply vertical t	all mounted on the funct	are centerline.
747 MODEL SCALE: 0.040		
DRAWING NUMBER: 65-74142	S.O. 1065-359, -426	
DIMENSIONS:	FULL-SCALE	MODEL SCALE
TOTAL DATA	FT.	IN.
Area (Ft ²)		- 0
Planform Wetted	830.0	1.328 Ft ²
Span (equivalent)	32.2	15.460
Aspect Ratio	1_25_	1.25
Rais of Taper Taper Ratio		
Diehedral Angle, degrees	0.34	0.34
Incidence Angle, degrees		**************************************
Aerodynamic Twist, degrees		
Toe-In Angle		
Cant Angle		
Sweep Back Angles, degrees		
Leading Edge Trailing Edge	50.12	50.12
0.25 Element Line	<u>22</u> 15	. <u>115.</u>
\ Choras:		43
Root (Wing-Sta0-0)	38.5	13.478
Tip, (equivalent)	13.08	6.277
MAC	_334.16 IN.	13.37
Fus. Sta. of .25 MAC N.P. of .25 MAC	2523.5 IN.	100.04
B.L. of .25 MAC	_528 IN	<u>21.132</u>
Airfoil Section		
Root		
Tip		
EXPOSED DATA	**************************************	
Area		
Span, (equivalent)	•	
Aspect Ratio		
Taper Ratio Chords	And the State of t	-
Root		
Tip	Charles of the Control of the Contro	
MAC		
Fus. Sta. of .25 MAC		
₩.P. of .25 HAC		
B.L. of .25 IMC		

TABLE IIIa. Concluded.

MODEL COMP	ONENT: VENTICAL VO 4		-
GENERAL DE		1) with a h.8 IN. Up ex	tension
(10 ft. n	ull scale).	, .	
نيف ي المستحدد	_		
			-
747	MODEL SCALE: 0.040	MCDEL: 1065, 1284	
DRAWING NU	JMBER: 5.0. 1284-3	<u>1065-382</u>	
DIMENSIONS	<u>S</u> :	FULL-SCALE	MODEL SCALE
TOTAL	_ DATA	FT.	IN.
	Area (FT)2		
	Planform	92 (1.4736
•	Wetted		
•	Span (equivalent)	42.2	20.256
	Aspect Ratio	1.93	1.93
•	Rate of Taper		************
	Taper Ratio Di hedral Angle, degrees	0,13	0,13
	Incidence Angle, degrees	•	*************************************
	Aerodynamic Twist, degrees	•	
	Toe-In Angle	•	
	Cant Angle	•	***************************************
	Sweep Back Angles, degrees		*
_	Leading Edge	50.12	50.12
•	Trailing Edge	22	22
•	0.25 Element Line	-	<u> </u>
``	Chords:		
•	Root (Wing Sta. 0.0)	38.46	18.478
•	Tip, (equivalent)	5,195	2.494
•	Total height	42.21	20.26
	Fus. Sta. of .25 MAC		
	W.P. of .25 MAC	1 <u>.</u>	**************************************
	B.L. of .25 MAC		
	Airfoil Section		
•	Root Tip		-
EVDO	OSED DATA		
LAPO	SED DATA		
	Area	•	
•	Span, (equivalent)		•
	Aspect Ratio	-	
	Taper Ratio		
	Chords		
	Root		
	Tip		
	MAC		
	Fus. Sta. of .25 MAC		
	₩.P. of .25 MAC	*	***************************************
•	B.L. of .25 INC	Control of Control of	
		•	

TABLE II B. External Tank

MODEL COMPONENT: ATTACH STRUCTURE - AT 37

GENERAL DESCRIPTION: A weldment of 3/8 diameter to 5/8 diameter

rods at aft attach points.

MODEL SCAL	E: <u>0</u>	. 040		747 M	odel	Model	1284
DRAWING NO.	·:	Boeing S.O.	1284-82, -83				
DIMENSIONS	:		MEMBER			SCALE	MODEL SCALE
		747 MS	#1 (Aft)		(II 1755	N.)	(IN.) 70.20
		747 W.L.			_489	0	19.56
		747 B.L.)	0.0
					•		
							
			#2 (Forward)				
Dia	meter,	In.	# 1				
			#2				

A weldment of 3/8 diameter to 5/8 diameter

MODEL COMPONENT: ATTACH STRUCTURE - AT38

GENERAL DESCRIPTION:

MODEL SCALE:	0.040		MODEL 1284	
DRAWING NO.:	Boeing S.O. 1	1284-82, -83		
dimensions:		MEMBER	FULL SCALE (IN.)	MODEL SC. LE
		#1 (Aft)		
			,	
		·		
		#2 (Forward)		
	747 MS	"- (202 mas m)	830.00	33.20
	747 W.L.		587.5	23,56
	747 B.L.		122, 0	4.88
	/4/ D.D.	•		
Diame	eter, In.	# 1		

MODEL COMPONENT: ATTACH STRUCTURE - AT70

GENERAL DESCRIPTION: A welded rod assembly to support the tank on

the 747 at forward attach points. Tank incidence is 0 degree.

MODEL SCALE: 0.040

DRAWING NO.: Boeing S.O. 1284, -131, -120-1, -120-6

DIMENSIONS	FULL SCALE	MODEL SCALE
Attach point or. 747		
Number of struts	4	4
Diameter, In. (Cross tie at top of body)	15	0.562
Location, In.:		
BS 747	790.00	31.600
BWL 747	305.00	12.200
747	114.50	4.580
Attach point on tank		
BS 747	830.00	33.200
BWL 747	646.00	25.840
BBL 747	169.50	6. 780
BS Tank	2058.00	82.320

MODEL COMPONENT: ATTACH STRUCTURE - AT71

GENERAL DESCRIPTION: A welded rod assembly to support the tank on

the 747 at aft attach points. Tank incidence is 0 degree.

MODEL SCALE: 0.040

DRAWING NO.: Boeing S.O. 1284, -123, -112-1, -112-2, -118-1, -118-4

DIMENSIONS		FULL SCALE	MODEL SCALE
Aft Attach Points: Attach point on 747: Number of Struts		6	6.
Diameter In Fwd I Aft Lo Cross Tie at Top of Bo	eg	14.0 16.0 6.0	0.562 0.625 0.25
Location in. Forward:	BS 747	1610.00	64.400
	BWL 747	313.25	12.530
	BBL 747	108.00	4.320
Aft:	BS747	1950.00	78.000
	BWL 747	200.00	8.000
	BBL 747	132.15	5.286
Attach point on Tank: BS 747		1902.3	76.092
BWL 747		703.00	28.120
BBL 747		180.75	7.230
BS Tank		985.70	39.428
WL Tank		400.00	16.00

MODEL COMPONENT: ATTACH STRUCTURE - AT72

GENERAL DESCRIPTION: STUDY Configuration 1 forward attach point. A welded rod assembly to support the tank on the 747. Tank incidence = 0°. Dummy cross bracing attached tangent to 747 body, up and across body to opposite strut with 1/2" clearance between diagonal & tank. Forward attach diagonals downstream & touching sidebraces. Aft diagonal upstream of & touching side braces.

MODEL SCALE: 0.040

DRAWING NO.: Boeing S.O. 1284-131, -120-1, -120-6

Diagonal Strut: S.O. 1284-152

DIMENSIONS:	FULL SCALE	MODEL SCALE
Attach point on 747		
Number of struts	5	-
Diameter, In.	15.0	0.562
Diagonal Strut	18.0	0.75
Cross Tie at Top of Body	6.0	0.25
Location, In.		
RS 747 BWL 747 BBL 747	790.0 305.0 114.5	31.60 12.20 4.58
Attach point on Tank		
BS 747 BWL 747 BBL 747 BS Tank	830.0 646.0 169.5 2058.0	33.20 25.84 6.78 82.32

MODEL COMPONENT: ATTACH STRUCTURE - AT72.1

GENERAL DESCRIPTION: A welded rod assembly to support the tank on the 747.

Tank incidence is 0°. Dummy diagonal cross bracing between Attach Structures at both forward & aft Sta. Cross ties attached tangent to 747 body up and across to opposite strut with 1/2" clearance between diagonals and tank.

Forward attach diagonals downstream and touching sidebraces.

MODEL SCALE: 0.040

DRAWING NO.: Boeing S.O. 1284

DIMENSIONS:		FULL SCALE	MODEL SCALE
Attach point on 747:			
No. of struts		5	5
Strut Diameter, In.		15.00	0.562
Diagonal Diameter, In.		1.25	0.05
Cross tie at top of body	Diameter, In.	6.00	0.25
Location, In.:	BS 747 BWL 747 BS Tank	790.00 305.00 114.50	31.600 12.200 4.580
Attach point on Tank:			
BS 747 BWL 747 BBL 747 BS Tank		830.00 646.00 169.50 2058.00	33.200 25.840 6.780 82.320

TABLE IIIb. (Cont'd)

MODEL COMPONENT: ATTACH STRUCTURE - AT73

GENERAL DESCRIPTION: Study Config. 1 aft attach structure. A welded rod assembly to support the tank on the 747. Tank incidence 0°. Dummy cross-bracing attached tangent to 747 body, up and across body to opposite strut with 1/2 inch clearance between diagonal & tank. Fwd attach diagonals downstream & touching sidebraces.

MODEL SCALE: 0.040

DRAWING NO.: Boeing S.O. 1284, -131, -120-1, -120-6

Diag. Strut -152.

DIMENSIONS:		FULL SCALE	MODEL SCALE
Attach Point on 747:			
Number of struts		7	7
Diameter, In.	Fwd Leg Aft Leg Cross tie at top	14.0 16.0	0.562 0.625
	of body (Diagonal Strut)	6.0 12.0	0.25 0.50
Location, In.			
Forward:	BS 747 BWL 747 BBL 747	1610.0 313.25 108.0	64.400 12.530 4.320
Aft	BS 747 BWL 747 BBL 747	1950.00 200.0 132.15	78.000 8.000 5.286
Attach Point on Tank:			
BS 747 BWL 747 BBL 747 BS Tank		1902.3 703.0 180.75 985.70	76.092 28.120 7.230 39.428
WL Tank		400.00	16.000

MODEL COMPONENT: ATTACH STRUCTURE - AT73.1

GENERAL DESCRIPTION: A welded rod assembly to support the tank on the 747. Tank incidence is 0°. Dummy diagonal cross bracing between attach structures at both forward and aft attach stations. Cross ties attached tangent to 747 body--up and across to opposite strut with 1/2" clearance between diagonals and tank. Aft diagonals upstream of and touching side braces.

MODEL SCALE: 0.040

DRAWING NO.: S.O. 1284.

DIMENSIONS:		FULL SCALE	MODEL SCALE
Attach point on 747:			
Number of struts		7	7
Strui Diameter, In.	Fwd Leg Aft Leg	14.0 16.0	0.562 0.625
Diagonal Diameter, I	n.	1.25	0.05
Diameter of Cross ti	e at top of body, In.	6.0	0.250
Location, In.:	(BS 747 Fwd \\ BWL 747 \\ BBL ,47 \\ (BS 747 \\ Aft \\ \\ BWL 747 \\ \\ BBL 747	1610.0 313.25 108.0 1950.0 200.00 132.15	64.400 12.530 4.320 78.000 8.000 5.286
Attach Point on Tank:			
BS 747 BWL 747 BBL 747 BS Tank WL Tank		1902.3 703.0 180.75 985.70 400.00	76.092 28.120 7.230 39.428 16.000

MODEL COMPONENT: ATTACH STRUCTURE - AT76

GENERAL DESCRIPTION: A welded rod assembly to support the tank on

the 747. Tank incidence is -5°.

MODEL SCALE: 0.040

DRAWING NO.: S.O. 1284 -131, -120-2, -12007.

DIMENSIONS:		FULL SCALE	MODEL SCALE
Attach Point on 747:			
Number of Struts		4	4
Diameter, In.	Cross tie at top	15	0.562
Location, In.	of body	6	0.25
BS 747		790.00	31.600
BWL 747		305.00	12.200
BBL 747		114.50	4.580
Attach point on Tank:			
BS747 BWL 747 BBL 747 BS Tank		839.05 552.75 169.50 2058.0	33.562 22.110 6.780 82.320

MODEL COMPONENT: ATTACH STRUCTURE - AT80

GENERAL DESCRIPTION: A welded rod assembly to support the tank on

the 747. Tank incidence is +3°. Aft attach points.

MODEL SCALE: 0.040

DRAWING NO.: Boeing S.O. 1284-123, -118-2, -118-5, -112-5, -112-6

DIMENSIONS:			FULL SCALE	MODEL SCALE
Attach point	on 747:			
Number	of struts		6	6.
Diamete	er, In.	Forward Leg	14	0.562
		Aft leg	16	0.625
Location	n, In. (Cross tie	e at top of body)	6	0.25
	(BS 747		1427.0	57.080
Fwd	BWL 747		313.25	12.530
	BWL 747 BBL 747		108.00	4.320
1	BS 747 BWL 747 BBL 747		1750.5	70.020
Aft	BWL 747		200.00	8.00
ľ	BBL 747		132. 15	5.286
Attach point	en tank:			
	BS 747		1729.5	69.180
	BWL 747		570.9	22.836
	BBL 747		185.5	7.420
	BS Tank		985.7	39.428
	WL tank		400.00	16.00

MODEL COMPONENT: ATTACH STRUCTURE - AT_{83}

GENERAL DESCRIPTION: A welded rod assembly to support the tank on the

747. Tank incidence is +3°. Forward attach points.

MODEL SCALE: 0.040

DRAWING NO.: 1284-131, -120-5, -120-10.

DIMENSIONS:	FULL SCALE	MODEL SCALE
Attach point on 747:		
Number of struts	4	4
Diameter, In.	15	0.562
Location, Inc. (Cross tie at top of body)	6	0.25
BS747	650.00	26.000
BWL 747	305.00	12.200
BBL 747	113.8	4.552
Attach point on Tank:		
BS 747	655.7	26,228
BWL 747	570.1	22.804
BBL 747	169.5	6.780
BS tank	2058.0	83.320

MODEL COMPONENT: ATTACH STRUCTURE - AT86

GENERAL DESCRIPTION: A welded rod assembly to support the universal support assy (USA) on the 747. Incidence is 0°. The tank is mounted in the USA.

MODEL SCALE: 0.040

DRAWING NO.: Bocing S.O. 1284 -133.

DIMENSIONS:		FULL SCALE	MODEL SCALE
Forward attach points:			
Attach point on 74	7:		
Number of Diameter Location,	, In.	2 7.0	2 0.28
	BS747 BWL 747 BBL 747	680.00 372.00 66.30	27.20 14.88 2.65
Attach point on US	SA		
	BS 747	680.00	27. 20 Bottom
	BWL 747	602.00	24.08 of USA at CL
	BBL 747	Centerline	Centerline of USA
	BS Tank	2058.00	83,320

MODEL COMPONENT: ATTACH STRUCTURE - AT87

GENERAL DESCRIPTION: A welded rod assembly to support the Universal

Support Assembly (USA) on the 747. Incidence is 0°. The tank is mounted

in the USA.

MODEL SCALE: 0.040

DRAWING NO.: Boeing S.O. 1284-132, -134.

DIMENSIONS:				FULL SCALE	MODEL SCALE
Aft Attach Po	oints				
Attach po	oint on 747				
	Number of	Struts		6	6
	Diameter,	In.	Fwd Leg	16	0.625
		_	Aft Leg	18	0.719
		Cro	ss tie at top	of	
	T 4:	T	body		
	Location,	BS 747		1445 20	57 O.
		BWL 747		1445.30 313.50	57.81
	1	BBL 747		104.20	12.54
		BS 747		1610.00	4.17 64.40
		BWL 747		313,50	12.54
•		BBL 747		104.20	4.17
Attach po	oint on USA				
	BS 747			1610.00	64.40
	BWL 747			602.00	24,08
	BBL 747			234.5	9.48*
	BS Tank			985.7	39.428
	WL Tenk			400.00	16.00
	Tank		BS 747	1882,325	75.293
	Tank		WL 747	647.0	25.88

MODEL COMPONENT: ATTACH STRUCTURE - AT89

GENERAL DESCRIPTION: A welded rod assy to support the Universal Support Assy (USA) on the 747. Incidence is 0°. The tank is mounted in the USA. Dummy cross bracing attached tangent to 747 body--up and across to opposite strut with 1/2" clearance between diagonal & tank. Aft diagonal upstream of & touching side braces. Aft attach points.

MODEL SCALE: 0.040

DRAWING NO.: S.O. 1284-132-134. Diagonals: -152.

DIMENSIONS:		FULL SCALE	MODEL SCALE
Attach point on 747:			
Number of strut	s	7	7
Diameter, In.:	Fwd leg	16.0	0.625
	Aft leg	18.0	0.719
	Cross tie &	z top	
	of body	8.0	0.320
	Diag. Stru	t 14.0	0.560
_[BS 747		1445,30	57.81
Fwd BWL 747		313,50	12.54
lBBL 747		104.20	4.17
BS 747		1610.00	64.40
Aft BWL 747		313.50	12.54
BBL 747		104. 20	4.17
Attach point on USA			
BS 747		1610.00	64.40
BWL 747		602.00	24.08*
B B L 747		234.5	9.38
BS Tank		985.7	39.428
WL Tank		400.00	16.00
Tank	BS 747	1882, 325	75.293
Tank	WL 747	703.00	28.12

^{*}Bottom of USA at centerline of USA

MODEL COMPONENT: ATTACH STRUCTURE - AT90

GENERAL DESCRIPTION: A welded rod assy to support the Universal Support Assy (USA) on the 747. Incidence angle is 0°. The tank is mounted in the USA.

MODEL SCALE: 0.040

DRAWING NO.: Boeing S.O. 1284-135, -142, -141

DIMENSION.:	FULL SCALE	MODEL SCALE
Forward attach points		
Attach Point on 747		
Number of struts	2	2
Diameter, In.	7. 0	0.28
Location, In.:		
BS 747 BWL 747 BBL 747	680.0 372.0 66.25	27.20 14.88 2.65
Attach point on USA		
BS 747 BWL 747 BBL 747 BS Tank	700.00 658.00 Centerline 2058.00	28.00 26.32* Centerline 83.32

^{*}Bottom of USA at centerline of USA.

Table III b. (Cont.)

MODEL COMPONENT: ATTACH STRUCTURE - AT91

GENERAL DESCRIPTION: A welded rod assy to support the Universal

Support Assy (USA) on the 747. Incidence is 0°. The tank is mounted in the USA.

MODEL SCALE: 0.040

DRAWING NO.: Boeing S.O. 1284-139, -136, -145

DIMENSIONS:			FULL SCALE	MODEL SCALE
Aft Atta	ch Points			
Attach p	ooint on 747			
Nur	nber of struts		6	6
Dia	meter, In.	Fwd Leg Aft Leg Aft Legs	16 18 8	0.625 0.719 0.320*
Loc	ation, In.:			
Fwd Aft	BS 747 BWL 747 BBL 747 ES 747 BWL 747 BBL 747		1445.25 313.5 104.25 1610.00 313.25 104.25	57.81 12.54 4.17 64.40 12.54 4.17
Atta	ach point on USA:			
	BS 747 BWL 747 BBL 747 BS Tank WL Tank Tank Tank	BS 747 WL747	1630.0 658.0 234.5 985.7 400.0 1902.30 703.00	65.20 26.32 9.38* 39.428 16.00 76.092 28.15

^{*}Bottom of USA at centerline of USA.

MODEL COMPONENT: External Tank	Universal Support Ass	sembly - C ₁
GENERAL DESCRIPTION: C, External Ta	ank universal support	assembly,
including boom to tank attachments.		
MODEL SCALE: 0.040		
DRAWING NUMBER: Boeing No. S. C) <u>. 12</u> 84-125, -126,-12	27, -128.
DIMENSIONS:	FULL-SCALE (FT.)	MODEL SCALE
Length	167.52	80.41
Width	46_58_	22.36
Dia. of Boom	7.50	3.60
Outb'd equivalent chord		
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord		
At Outb'd equiv. chord		
Sweep Back Angles, degrees		
Leading Edge		
Tailing Edg		
Hingeline		
Area Moment (Normal to hinge line	2)	

MODEL COMPONENT E.T. UNIVERSAL	L SUPPORT ASSE	MBLY - C ₂
GENERAL DESCRIPTION : Same as C	with extended bo	om length.
MODEL SCALE: 0.040		
DRAWING NUMBER Boeing S. O. 128	84-125, 126, 127,	128
DIMENSIONS :	FULL SCALE (FT.)	MODEL SCALE (IN.)
Length	185.35	88.97
Width	46.58	22.36
Dia. of Boom	7,50	3.60
Fineness Ratio	···	
Área		<u></u>
Max. Cross—Sectional		
Planform		
Wetted		
Bose		

MODEL COMPONENT : EXTERNAL	Z TANK - 1 ₂₈	
GENERAL DESCRIPTION . T28 spa	ce shuttle external	ank with a
right cylinder main body, an ogive	nose fairing and an	equal semiax.s
ellipsoidal tail fairing without orbi	ter attach struts,	
MODEL SCALE: 0.040		
DRAWING NUMBER: Boeing S.O.	1284-72	
DIMENSIONS:	FULL SCALE (FT)	MODEL SCALE (IN.)
Length	153.7	73.77
Diameter	27.58	13. 24
Max Depth		
Fineness Ratio		
Area		
Max. Cross—Sectional		
Planform		
Wetted		
Base		

MODEL COMPONENT EXTERNAL TA	NK - T _{28.1}	
GENERAL DESCRIPTION : $T_{29.1}$ space	shuttle external t	ank with a right
cylinder main body, an ogive nose for	airing and an equal	<u>L semiaxes elli</u> psoidal
tail fairing with Orbiter attach strut	.s	
MODEL SCALE: 0.040		
DRAWING NUMBER . Boeing S. O. 1284	-72	
DIMENSIONS :	FULL SCALE (FT.)	MODEL SCALE (IN.)
Length	_153.7	73, 77
Diameter	27.58	13. 24
Max Depth		
Fineness Ratio		
Area		
Max. Cross—Sectional		
Planform		
Wetted		
Base		

TABLE III b. (Cont.)

MODEL COMPONENT: VERTICAL - V ₁₀	Contr.)	*.
GENERAL DESCRIPTION: 301 sq ft Vertical	Fins on the External	Tank
Universal Support Booms		
MODEL: 1065, 1284		
MODEL SCALE: 0.04		
DRAWING NUMBER: AX 1284-116		
DIMENSIONS:	FULL SCALE	MODEL SCALE
TOTAL DATA		
Area (Theo) - Ft ² Planform Span (Theo) - In. Aspect Ratio Rate of Taper Taper Ratio Sweep-Back Angles, Degrees. Leading Edge Trailing Edge O.25 Element Line Chords: Root (Theo) WP Inches Tip (Theo) WP Inches Inches Fus. Sta. of .25 MAC W.P. of .25 MAC B.L. of .25 MAC	301 340 2.67 0.50 20.56 170 85 132.22	0.4816 13.6 2.67 0.50 20.56 6.80 3.40 5.2828
addestott Session, Root 1-Tip	- 8	

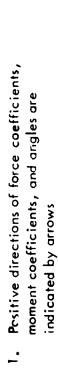
OF POOR QUALITY

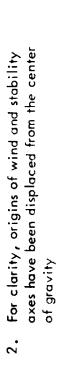
MODEL COMPONENT: VERTICAL - V11		·
GENERAL DESCRIPTION: 400 sq ft Vertical Fins of	on the External	Tank
Universal Support Booms		
MODEL: 1065, 1284		
MODEL SCALE: 0.04		
DRAWING NUMBER: AX 1284-117		
DIMENSIONS:	FULL SCALE	MODEL SCALE
TOTAL DATA		
A rea (Theo) - Ft ² Planform	400	0.64.
Span (Theo) - In.	392	15.70
Aspect Ratio Rate of Taper	2.67	2.67
Taper Ratio .	0.50	0.50
Sweep-Back Angles, Degrees. Leading Edge		
Trailing Edge	 '	
O.25 Element Line	20.56	20.56
Chords:		•
Root (Theo) WP	196	7.85
Tip (Theo) ∜P MAC	98 152.42	3.93 6.11
Fus. Sta. of .25 MAC	136.46	
W.P. of .25 MAC		
B.L. of .25 MAC	***************************************	·
Mirfoil Section, Root & Tip	BAG-482-9%	BAC 482-5#

OF BOOK GUYTLER

TABLE IIIb. Concluded.

MODEL COMPONENT: VERTICAL - V 12 GENERAL DESCRIPTION: 600 sq. ft. vertical fins on the external tank universal support booms.						
					MODEL SCALE: 0.040	
DRAWING NUMBER: Boeing AX1284-156						
DIMENSIONS:	FULL SCALE MODEL SCALE					
TOTAL DATA						
Area (Theo) - Ft ² Planform	600.00 0.960					
Span (Theo) - In.	480,00 19.20					
Aspect Ratio	2.67 2.67					
Rate of Taper						
Taper Ratio Sweep-Back Angles, Degrees.	0.50 0.50					
Leading Edge						
Trailing Edge	Communication of the Communica					
0.25 Element Line	20.56 20.56					
Chords:						
Root (Theo) WP	240.00 9.60					
Tip (Theo) WP MAC	120.00 4.80					
Fus. Sta. of .25 MAC	<u> 186, 675</u>					
W.P. of .25 MAC	Committee destruction of the final months and the final months and the final control of the cont					
B.L. of .25 MAC						
Airfoil Section						
Leading Wedge Angle - De						
Trailing Wedge Angle - De Leading Edge Radius	В.					
regative nake inatas						
Void Area						
Blanketed Area						





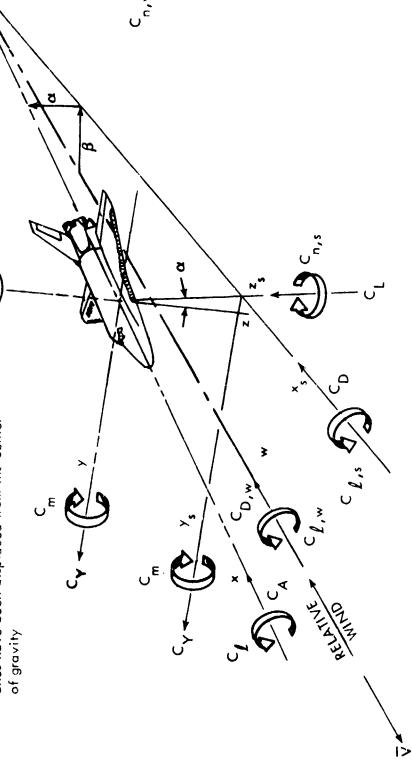
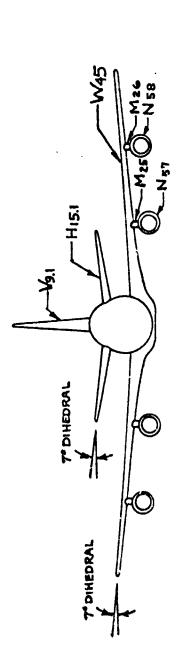
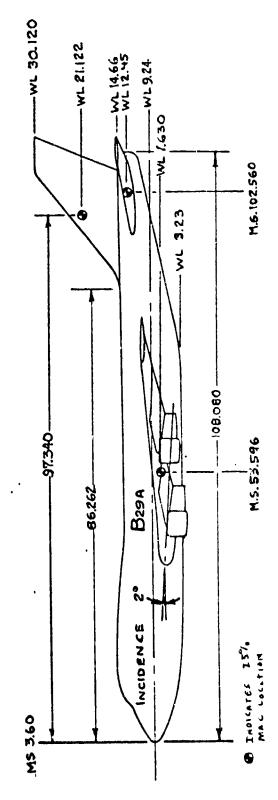


Figure 1. - Axis systems.





a. 747-100 Carrier Side and Front Views

Figure 2. - Model sketches.

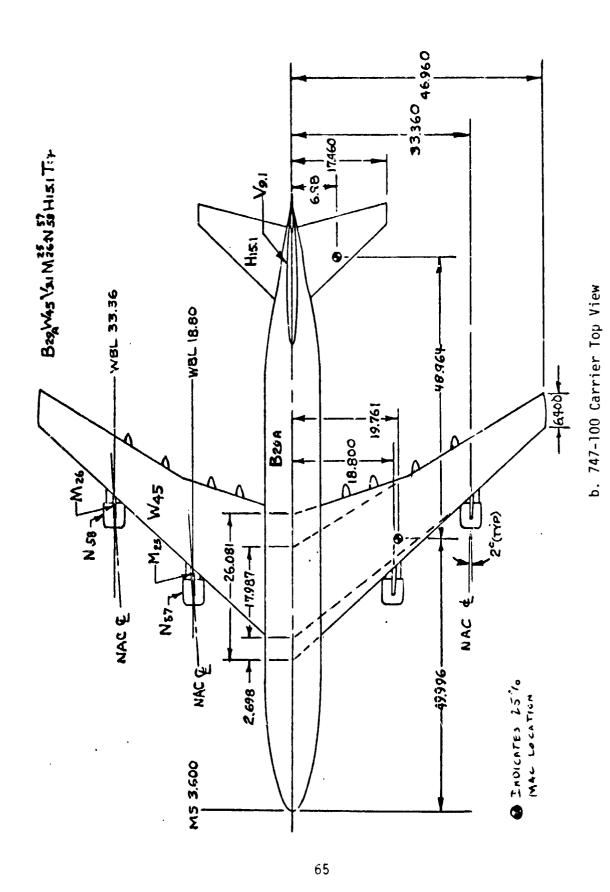
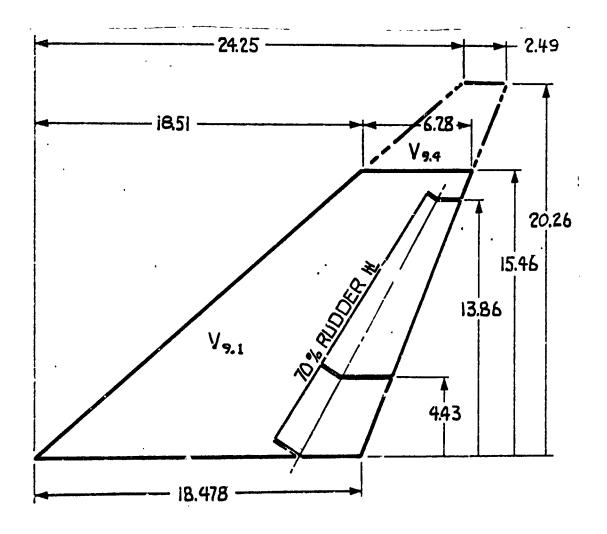
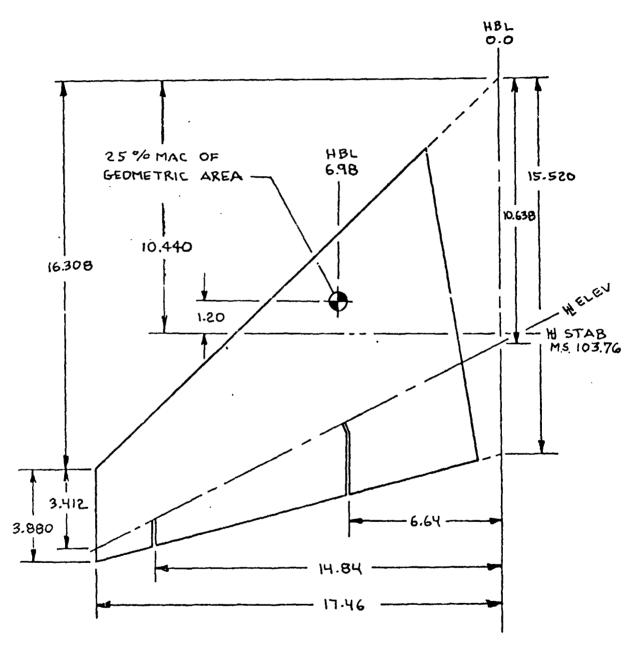


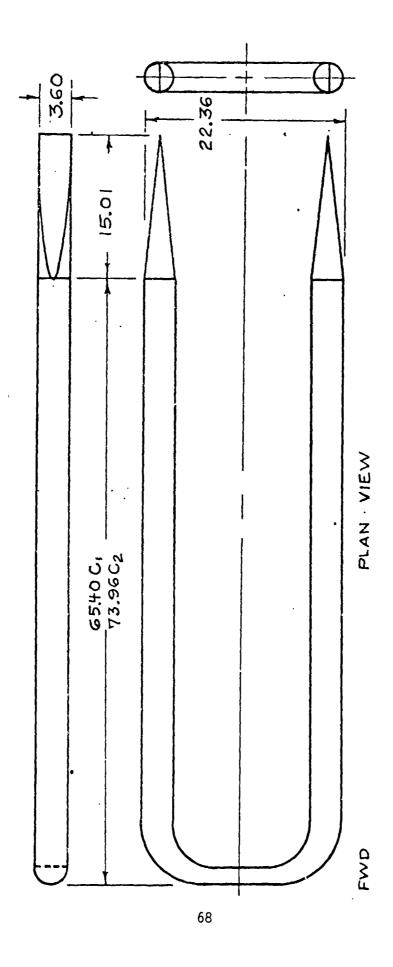
Figure 2. - Continued.



c. V_{9.1}, V_{9.4} Vertical Tails Figure 2. - Continued.

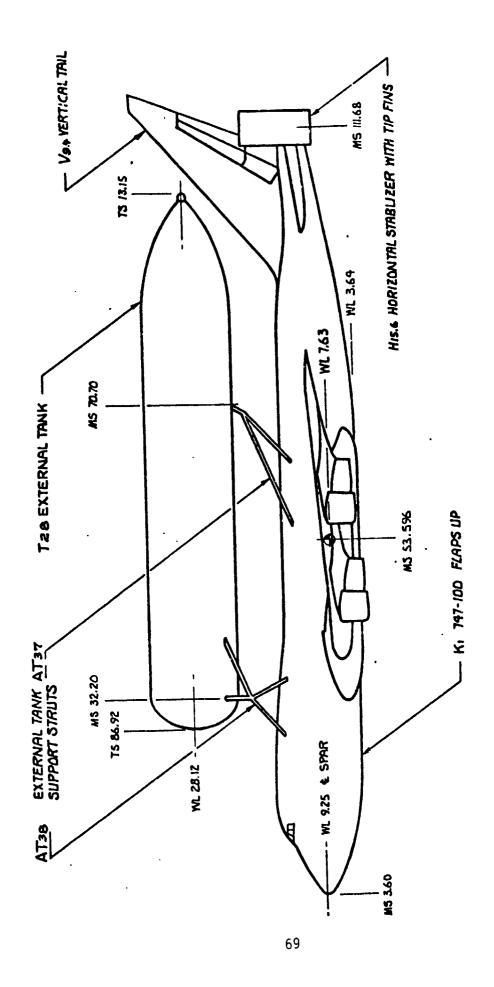


d. H_{15.1} Horizontal TailsFigure 2. - Continued.

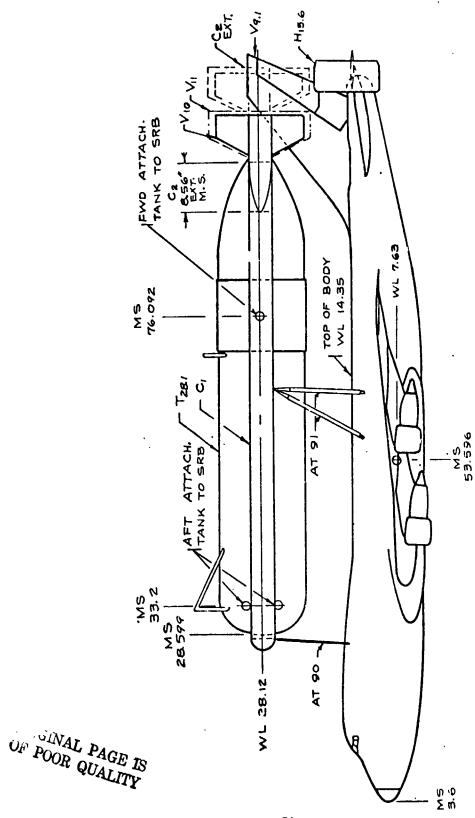


e. c_1 and c_2 External Tank Universal Support Assembly

Figure 2. - Continued.

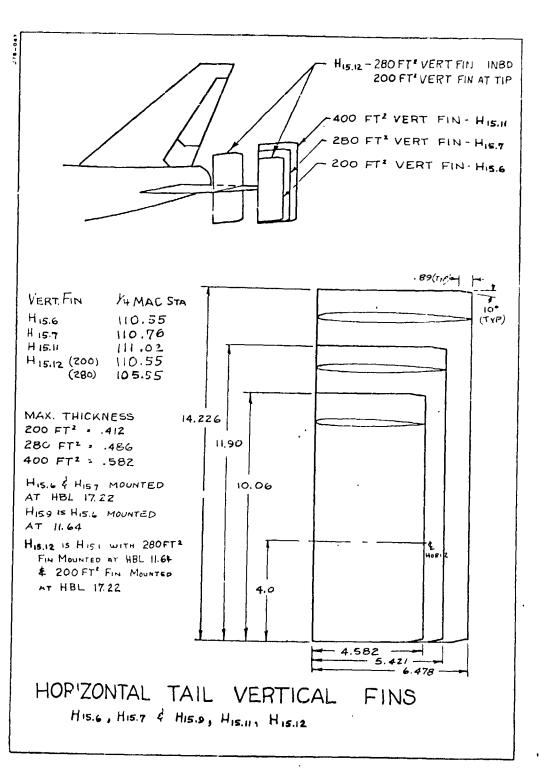


f. 747-100 and External Tank Figure 2. - Continued.



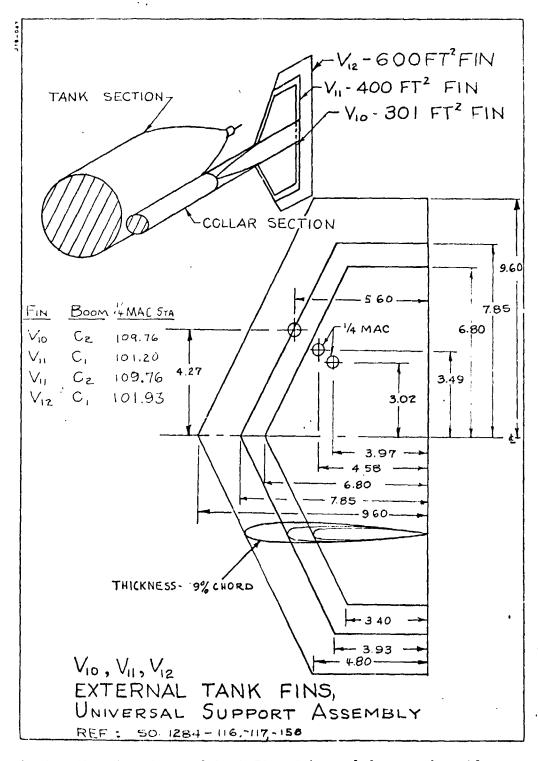
g. 747-100, Universal Support Assembly and External Tank

Figure 2. - Continued.

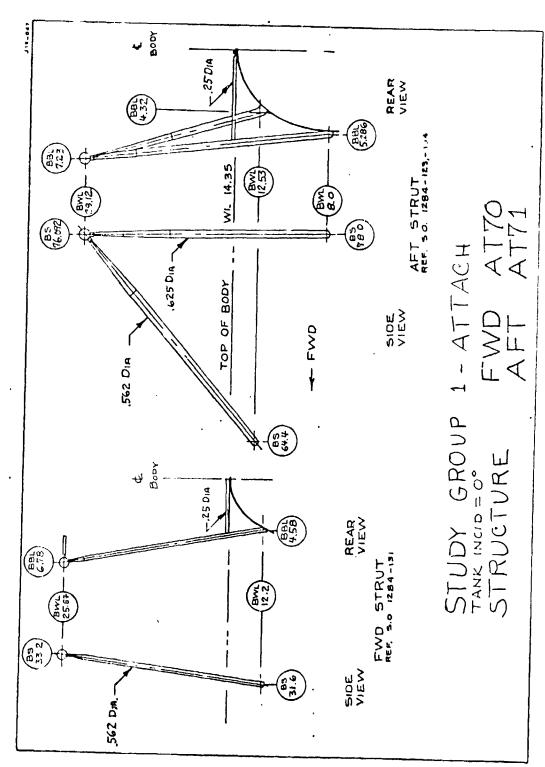


h. Horizontal Tail Vertical Fins

NAL PAGE IS

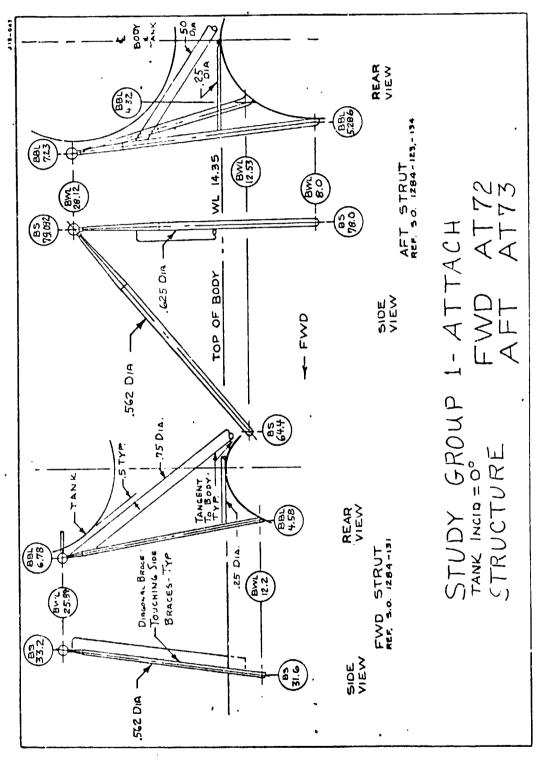


i. $V_{10},\ V_{11},\ V_{12}$ External Tank Fins-Universal Support Assembly Figure 2. - Continued.



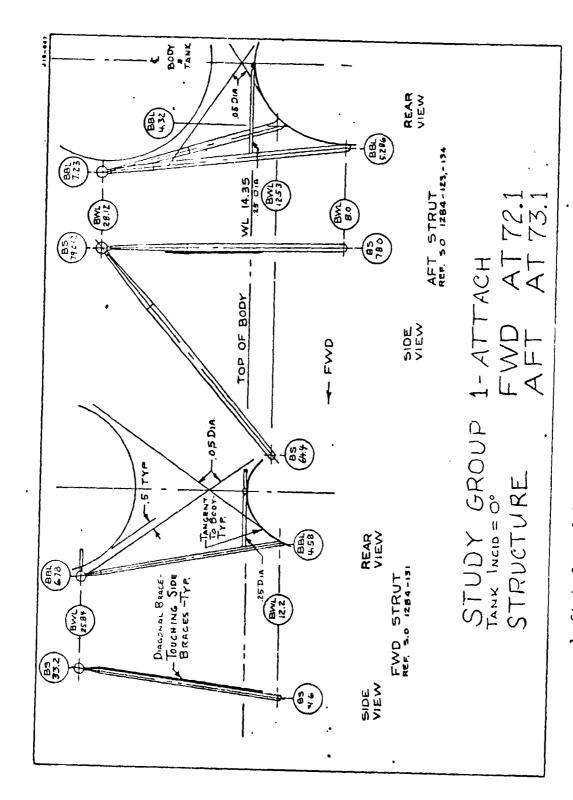
j. Study Group I-Attach Structure FWD/AFT /776/AT71

Figure 2. - Continued.



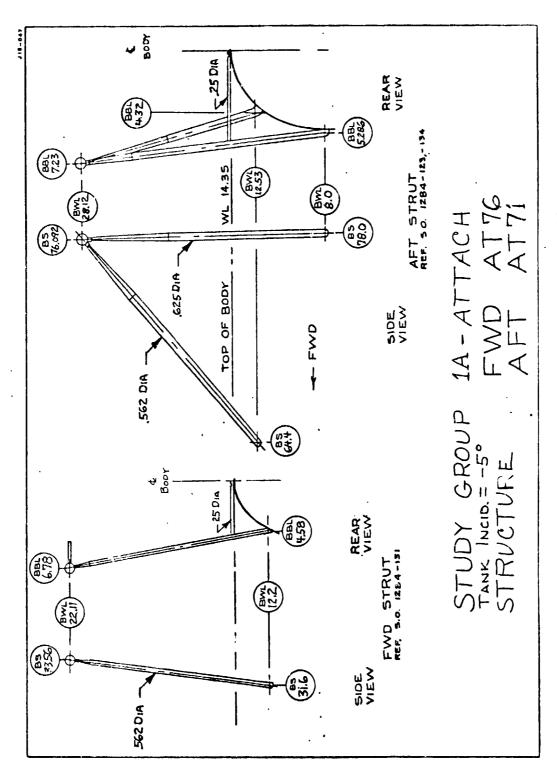
k. Study Group 1-Attach Structure FWD/AFT AT72/AT73

Figure 2. - Cortinued.



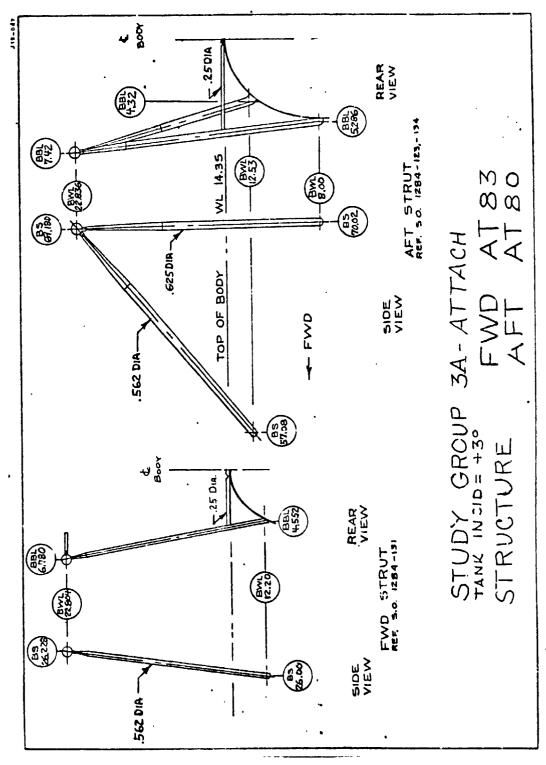
1. Study Group 1-Attach Structure FWD/AFT AT/72.1/AT73.1

Figure 2. - Continued.



m. Study Group 1A-Attach Structure FWD/AFT AT76/AT71

Figure 2. - Continued.



n. Study Group 3A-Attach Structure FWD/AFT AT83/AT80

Figure 3. - Concluded.



a. 747-100 Model Installation-Side View Figure 3. - Model photographs.

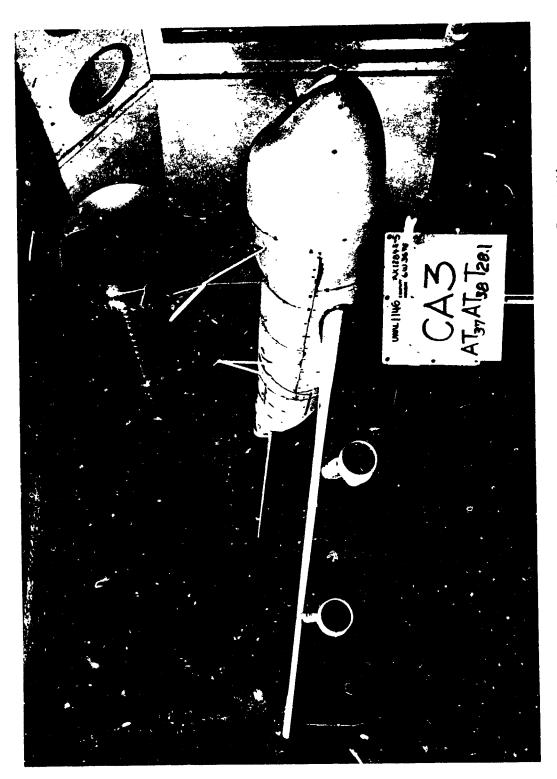
OF POOR QUALITY



b. i.7-100 Model Installation-Three-Quarter Front ViewFigure 3. - Continued.



.. 747-100/External Tank, Study Group CA3-Side View



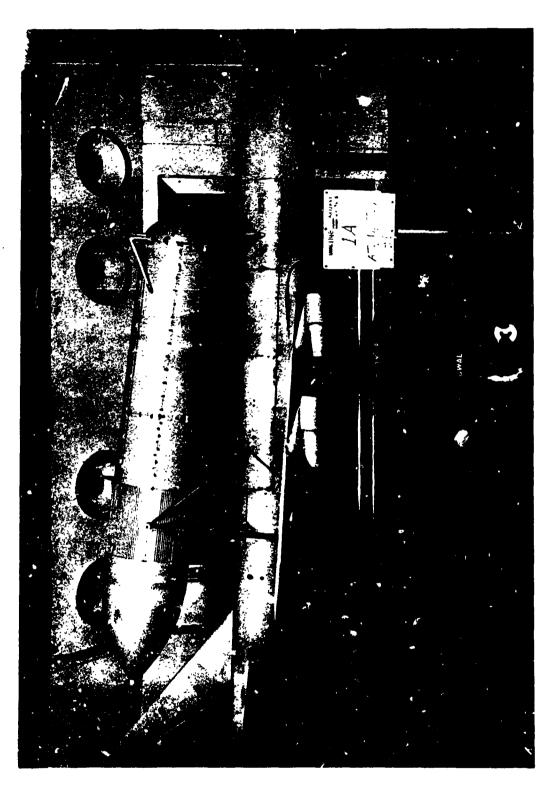
d. 747-100/External Tank, Study Group CA3-Three-Quarter Front View

00/External lank, Study Group Cas-inlee Figure 3. - Continued.

POOR QUALITY

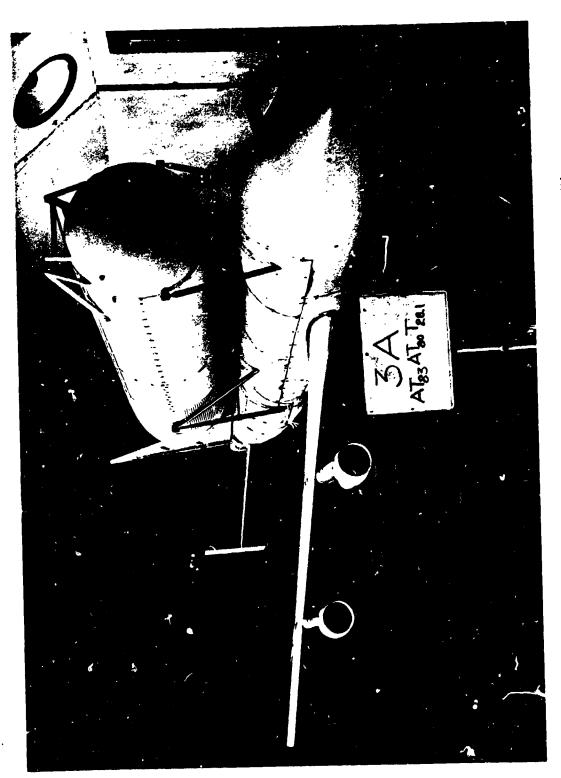
e. 747-100/External Tank, Study Group 1-Three-Quarter Front View

82

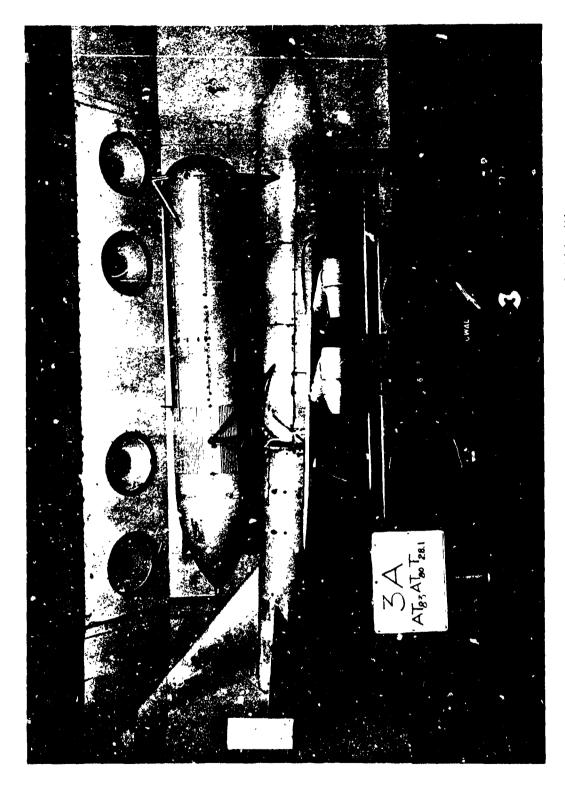


f. 747-100/External Tank, Study Group 1A-Side View

OF POOR QUALITY



g. 747-100/External Tank, Study Group 3A-Three-Quarter Front View



h. 747-100/External Tank, Study Group 3A-Side View

Figure 3. - Continued.



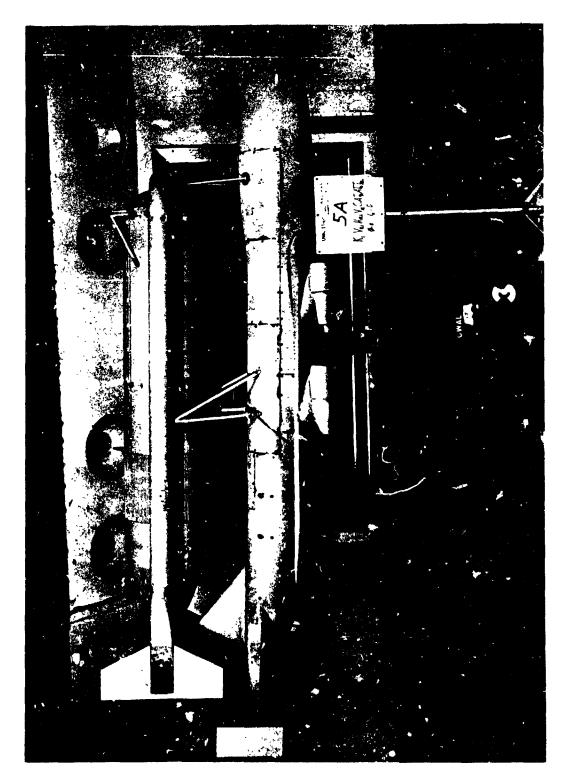
i. 747-100/External Tank/Universal Attach Structure-Study Group 5-Three-Quarter Front view

Figure 3. - Continued.



j. 747-100/External Tank/Universal Attach Structure-Study Group 5-Side View

Figure 3. - Continued.

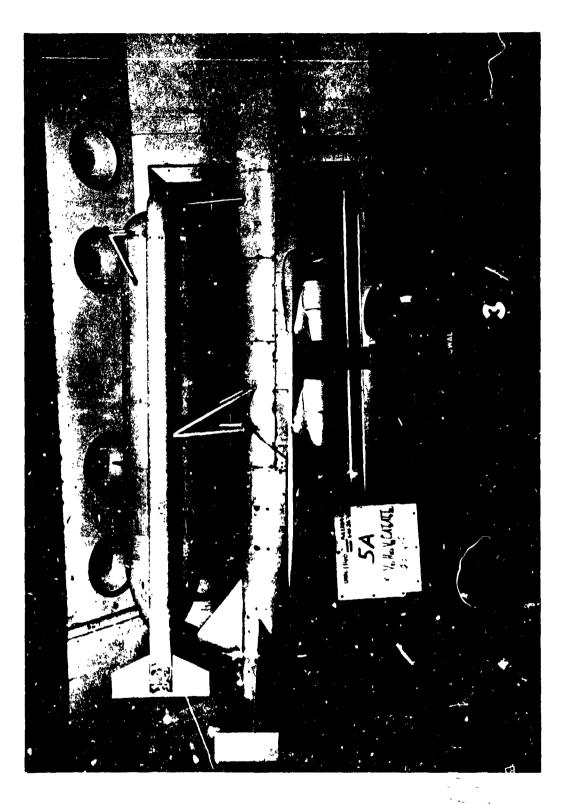


k. 747-100/External Tank/Universal Attack Structure-Study Group 5A-Side View

88



1. 747-100/External Tank/Universal Attach Structure-Study Group 5A-Three-Quarter Front View



m. 747-i00/External Tank/Universal Attach Structure w/Alternate Fins-Study Group 5A-Side View



n. 747-100/External Tank/Universal Attach Structure w/Alternate Fins-Study Group 5A-Three-Quarter Front View

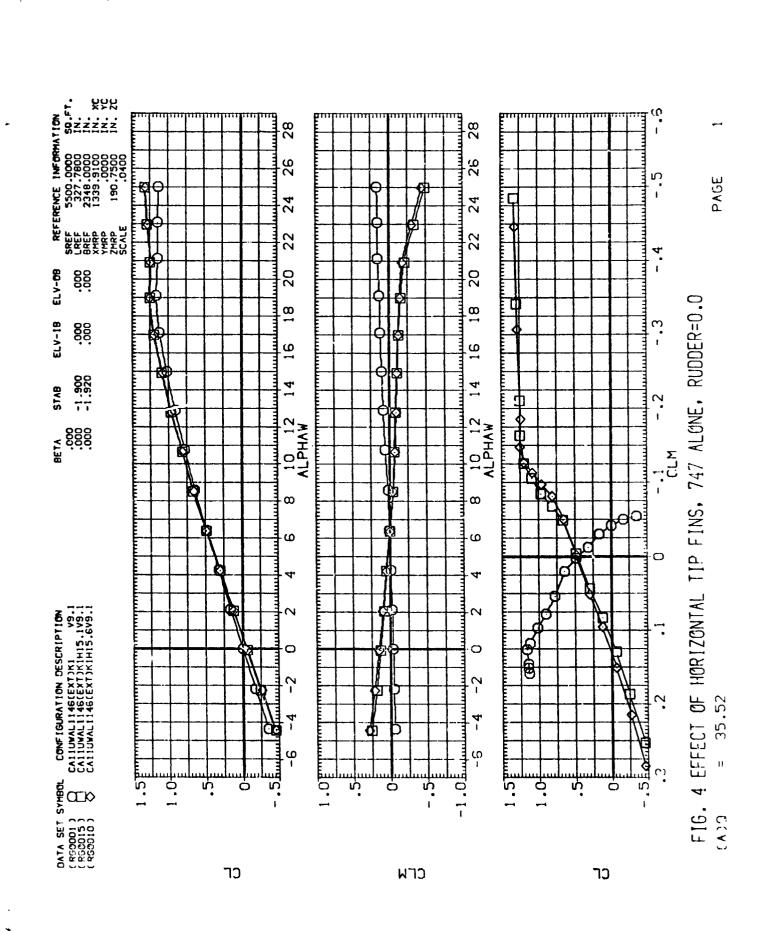
Figure 3. - Continued.



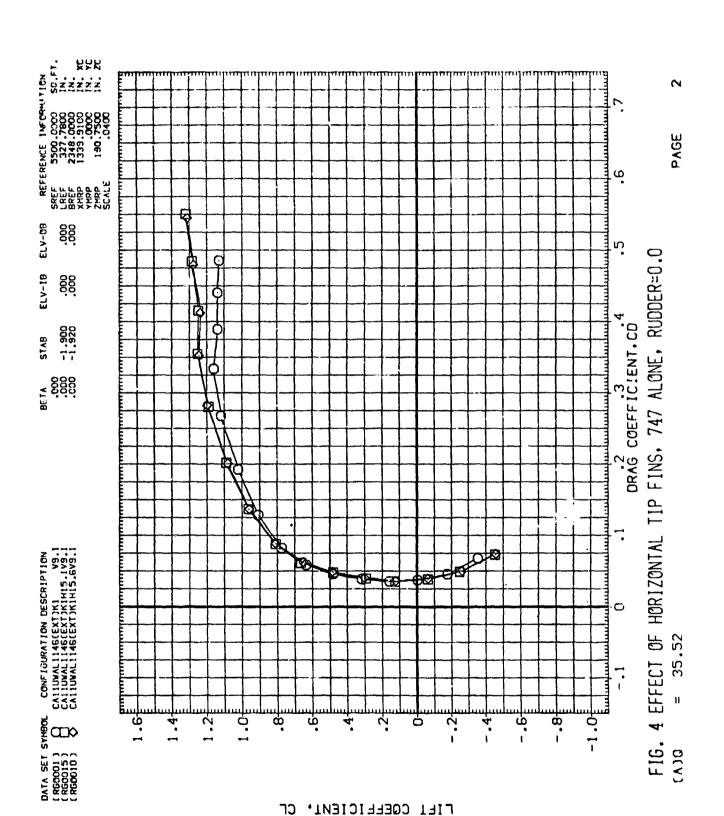
o. 747-100/External Tank/Universal Attach Structure-Study Group 5A-Top View

Figure 3. - Concluded.

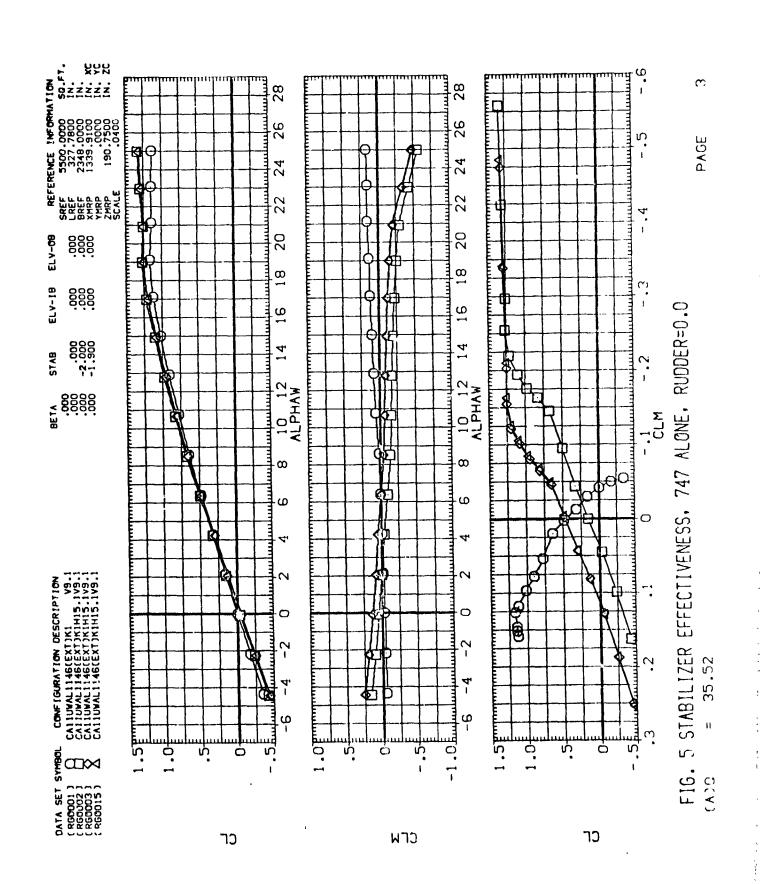
DATA FIGURES

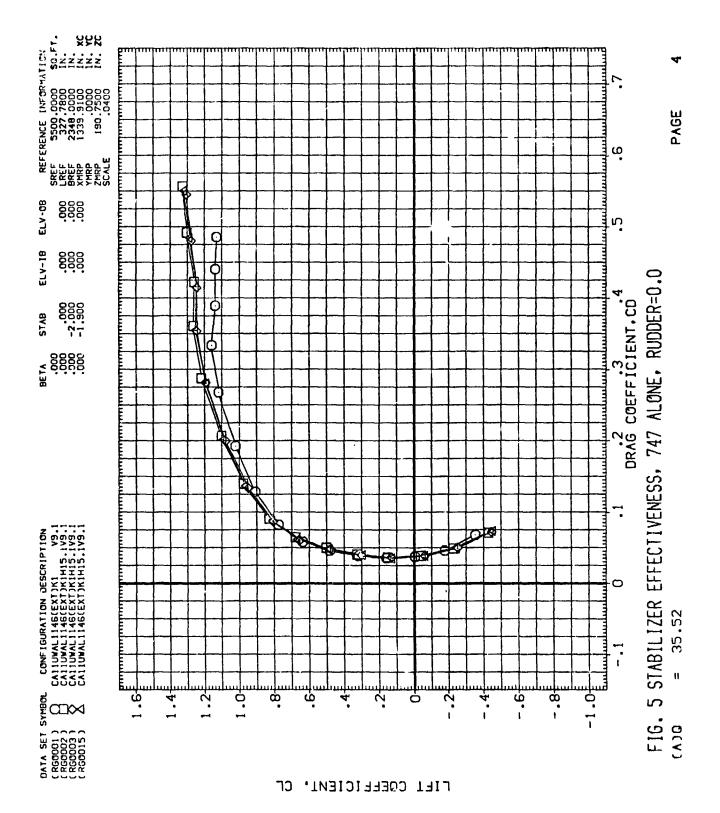


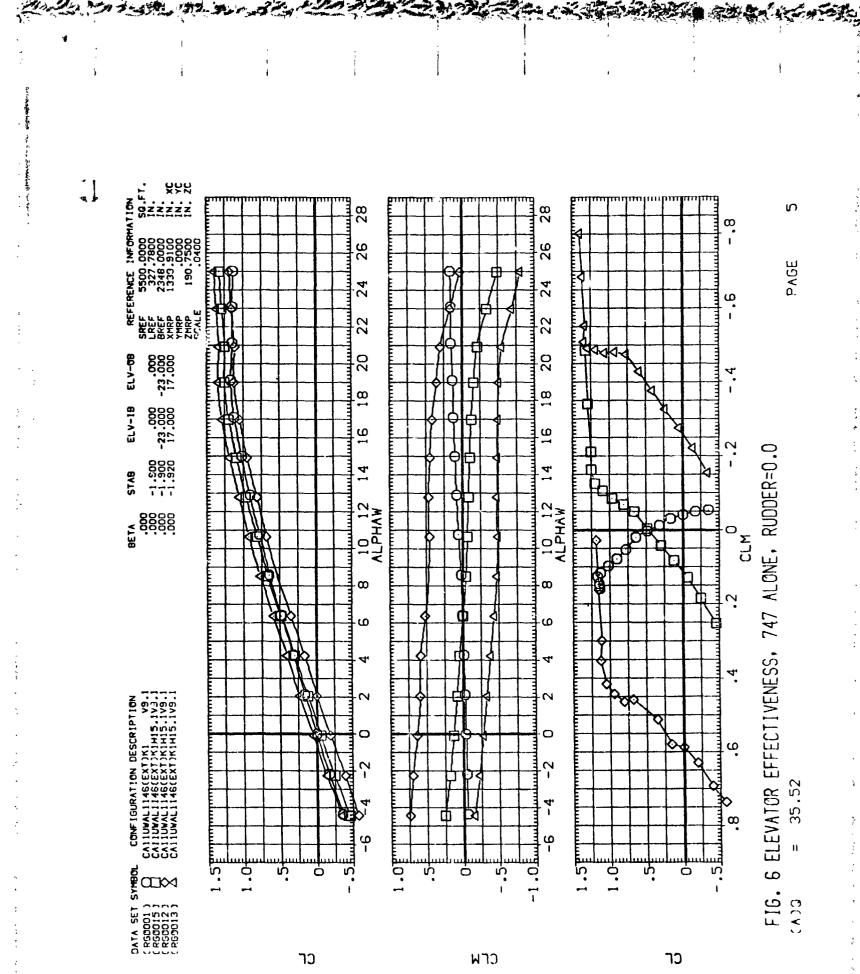
C.2

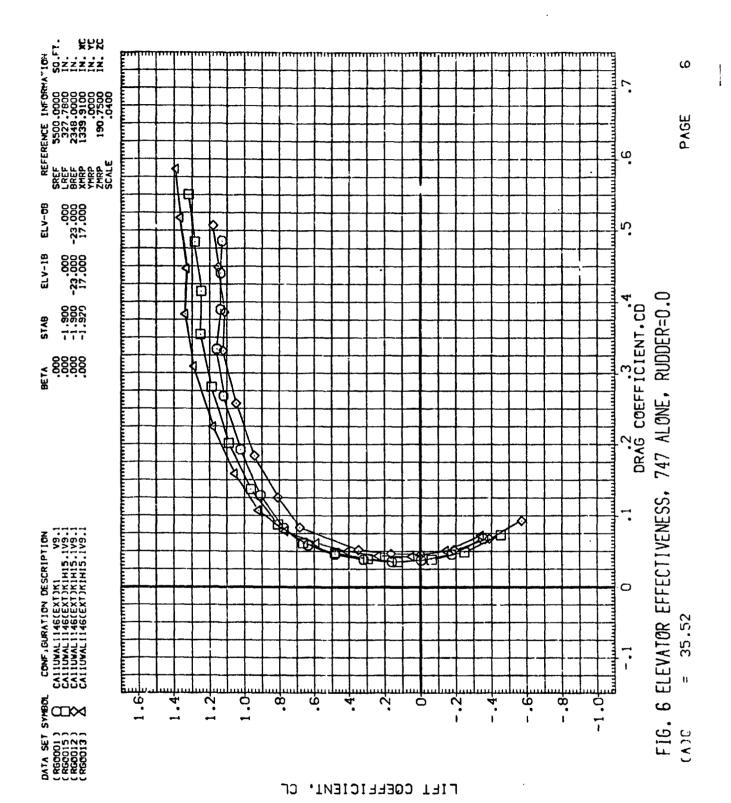


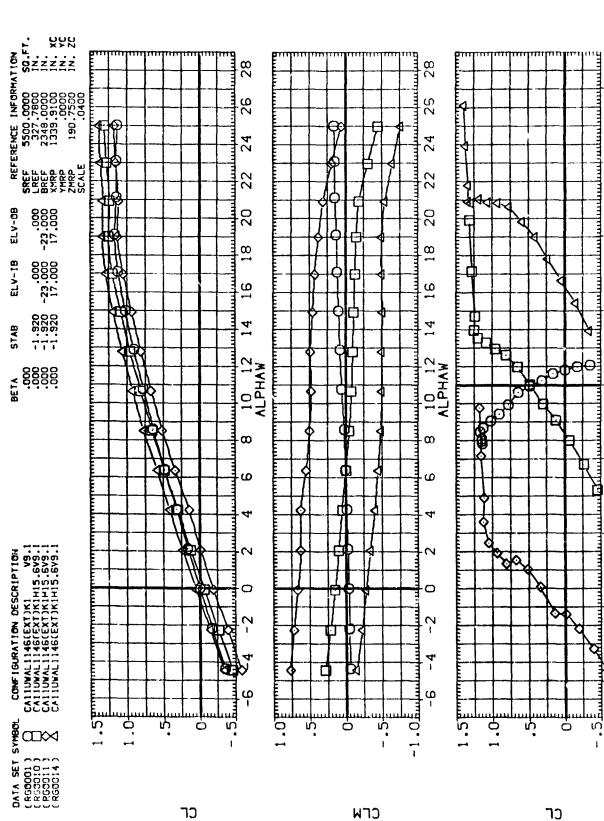
The second secon









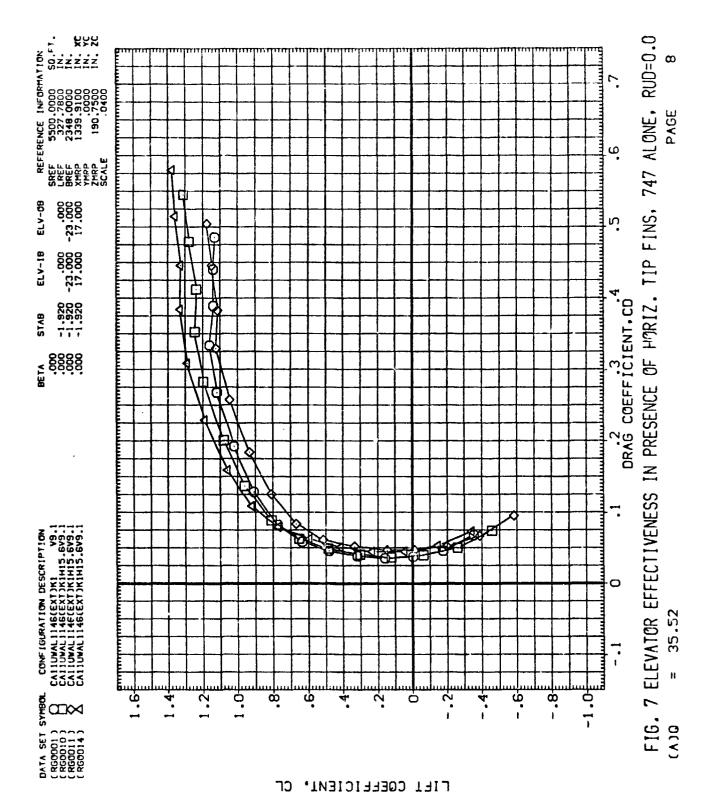


HORIZ. TIP FINS, 747 ALONE, RUD=0.0 PRESENCE OF Z ELEVATOR EFFECTIVENESS F16.

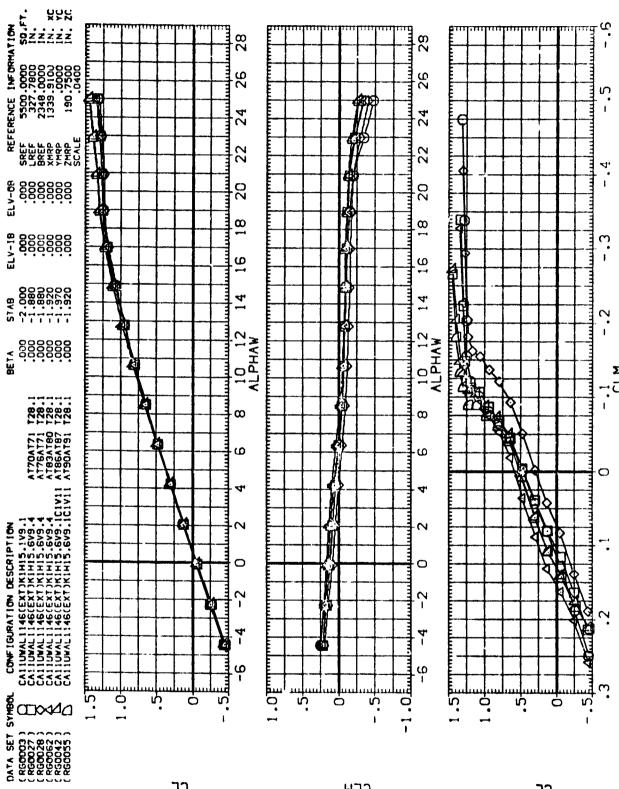
Ġ

1

က္





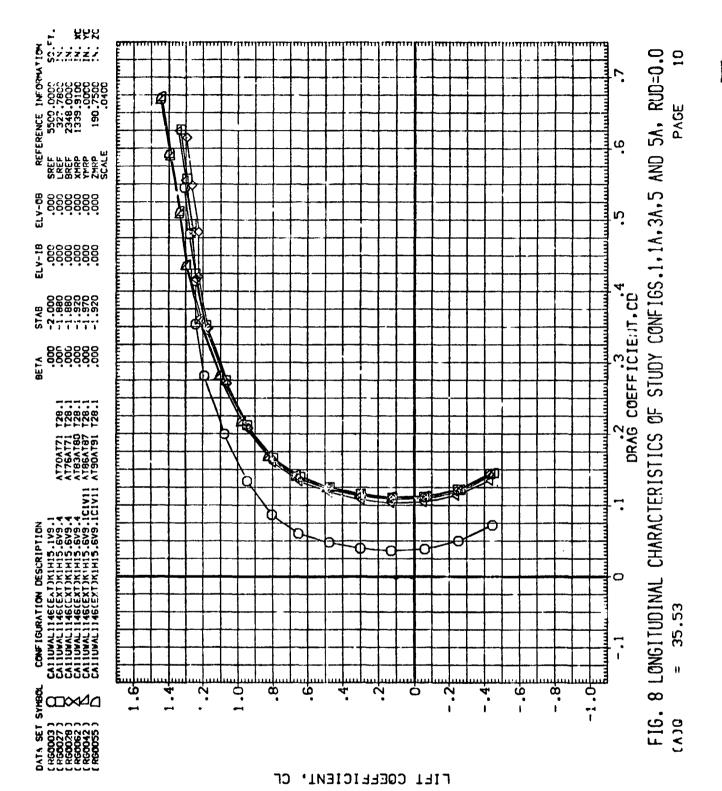


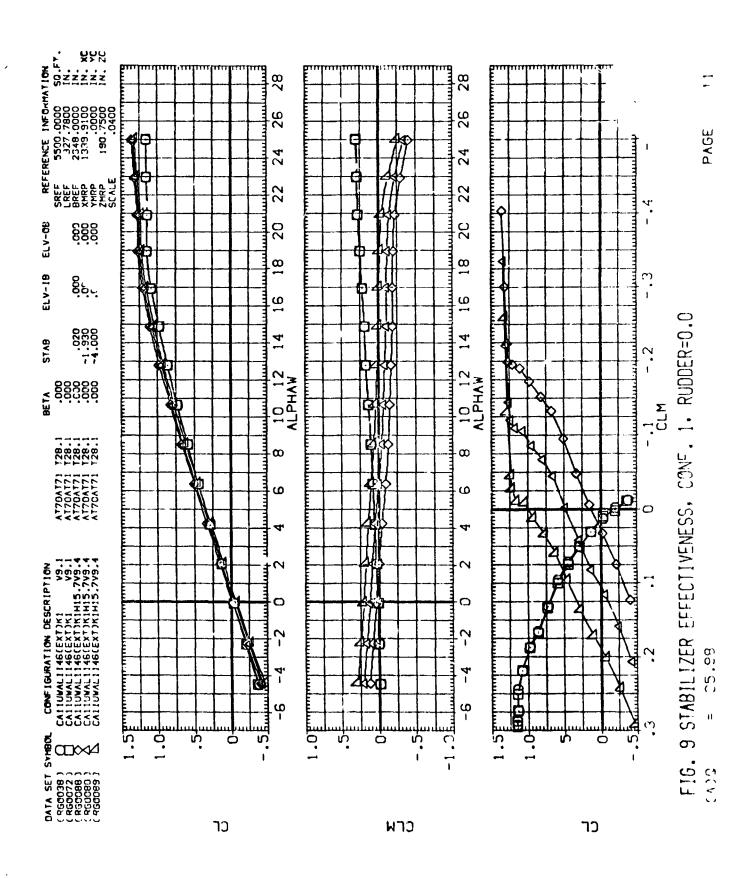
STUDY CONFIGS.1.1A,3A,5 AND 5A, RUD=0.0 OF OF FIG. 8 LONGITUDINAL CHARACTERISTICS

כר

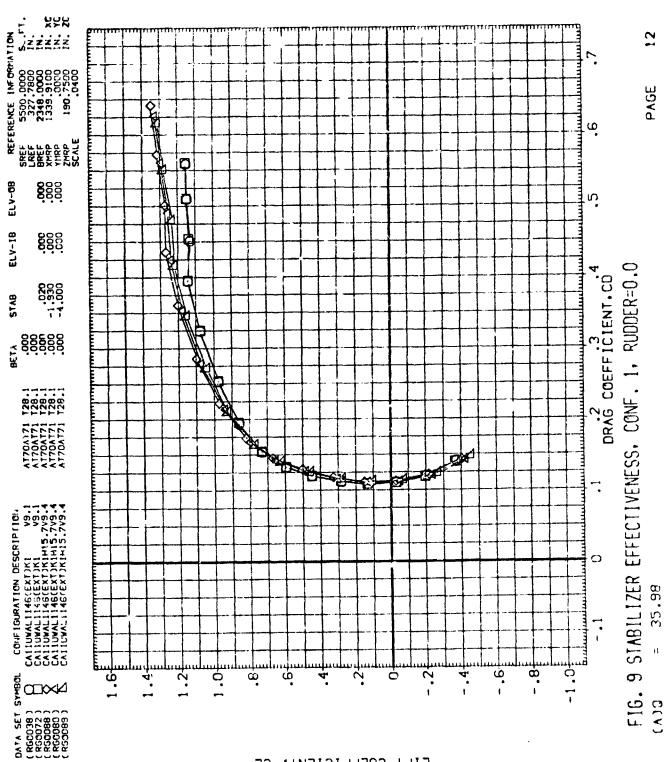
CLM

כר





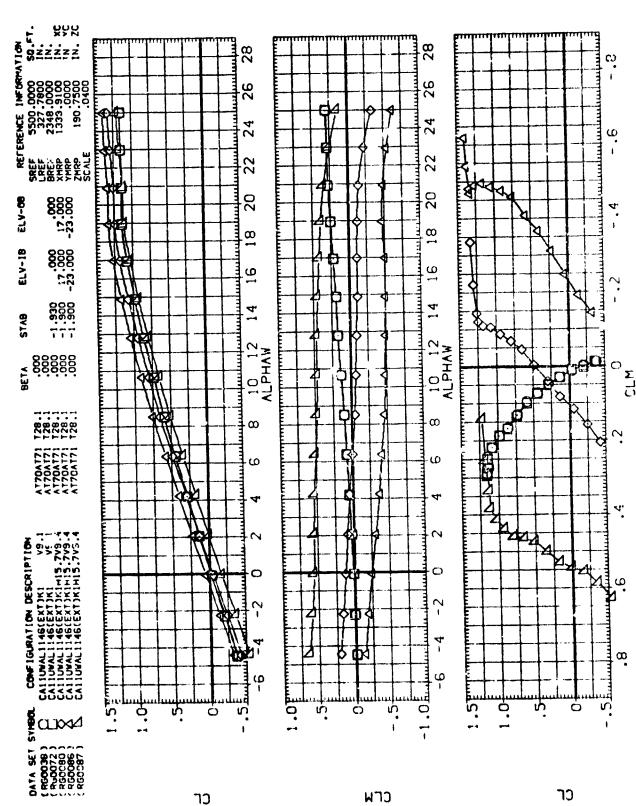




LIFT COEFFICIENT, CL

i

ì



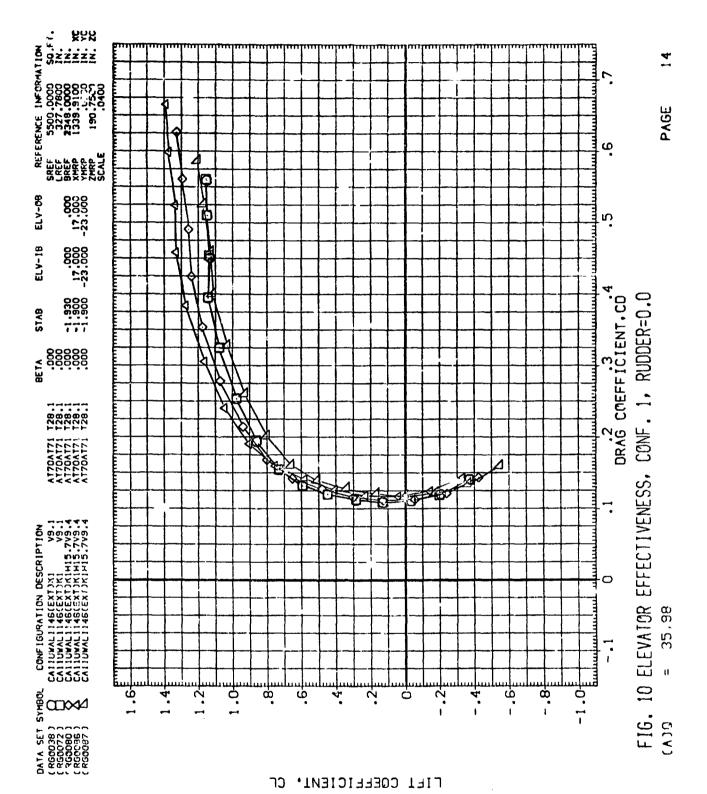
כר

<u>က</u>

PAGE

FIG. 10 ELEVATOR EFFECTIVENESS. CCNF. 1. RUDDER=0.0

CLM



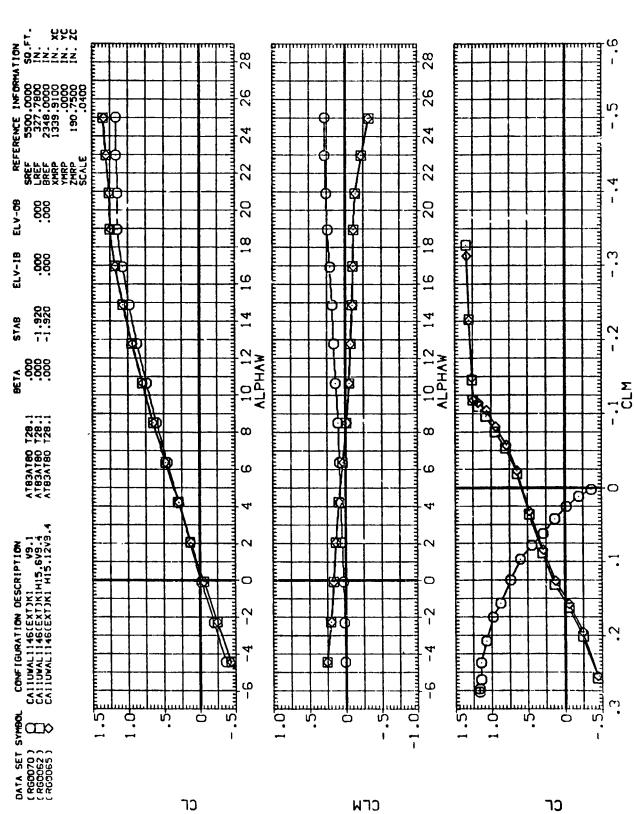
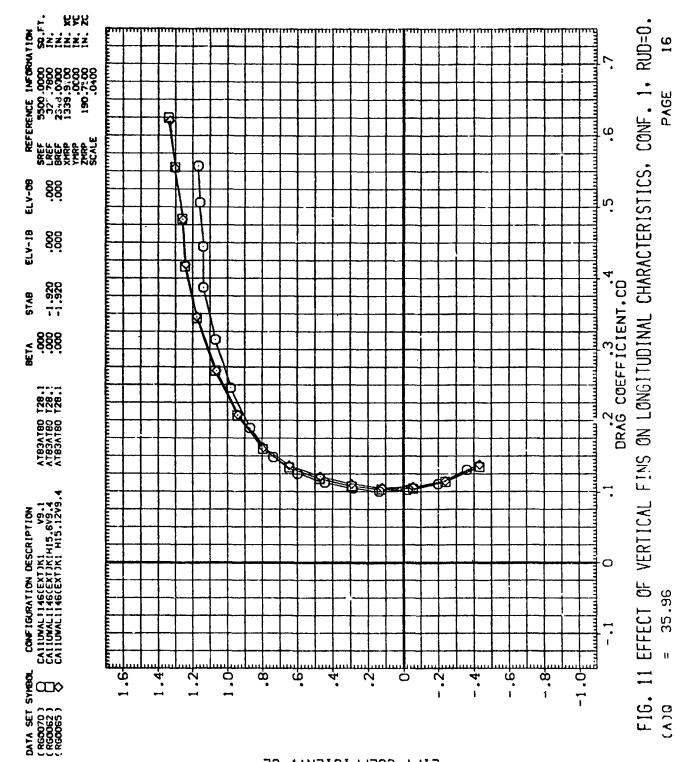


FIG. 11 EFFECT OF VERTICAL FINS ON LONGITUDINAL CHARACTERISTICS. CONF. 1. RUD=0 35.96



LIFT COEFFICIENT, CL

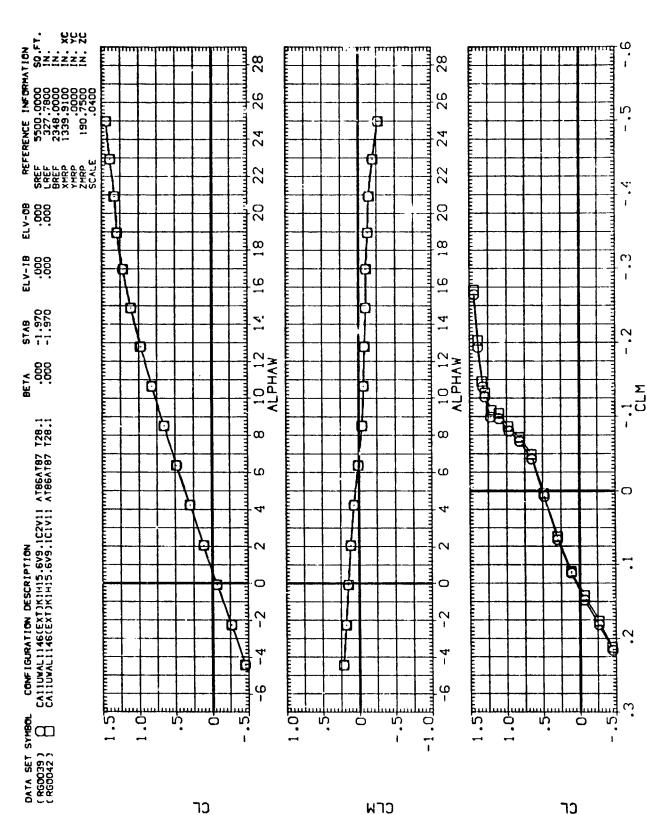
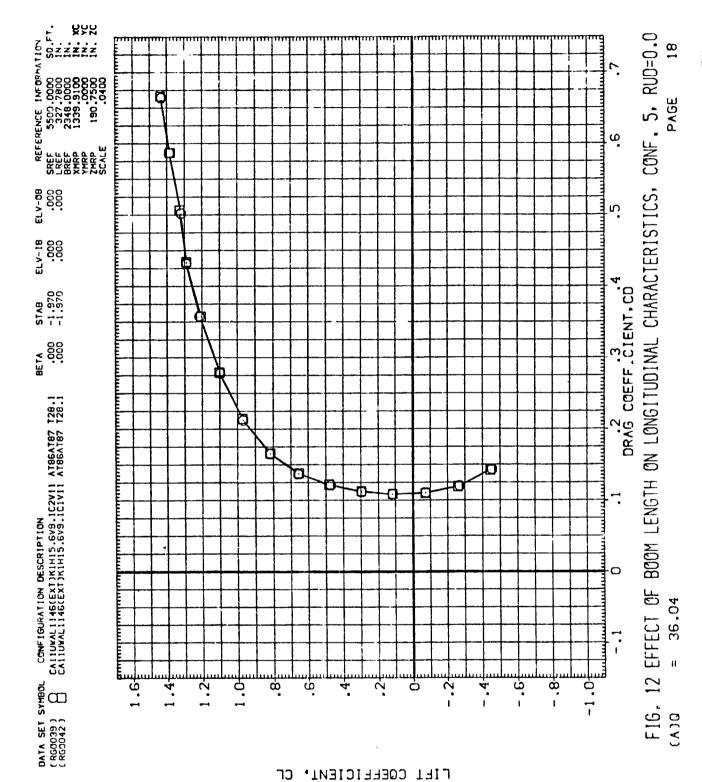
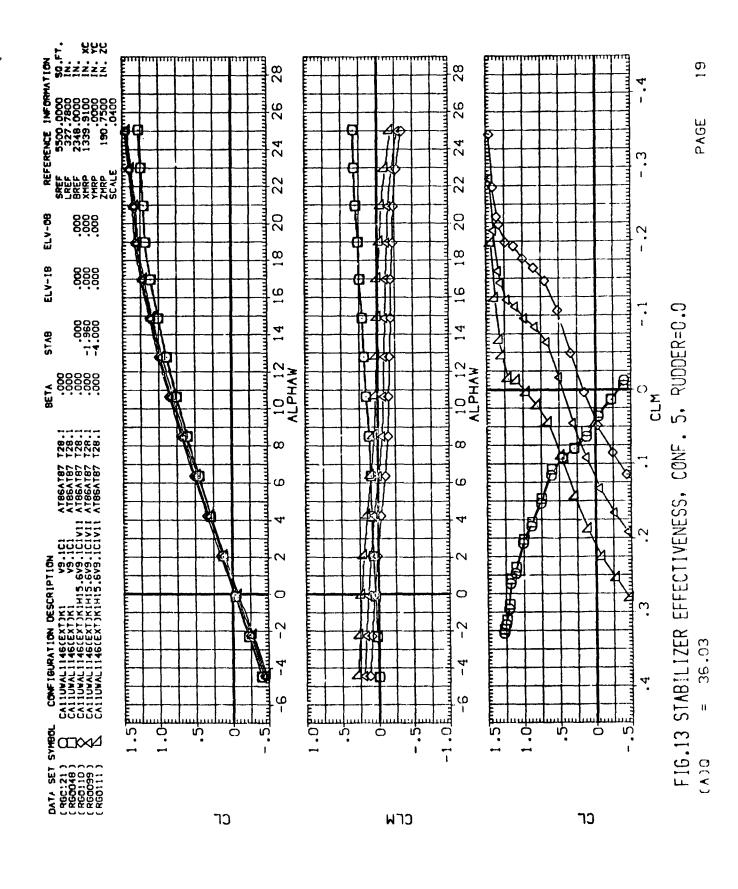


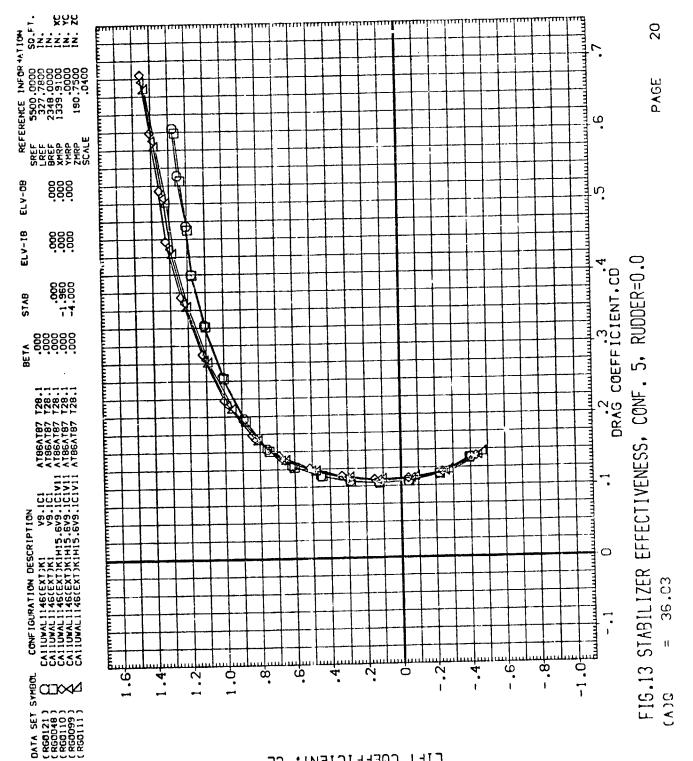
FIG. 12 EFFECT OF BOOM LENGTH ON LONGITUDINAL CHARACTERISTICS, CONF. 5, RUD=0.0

4 b

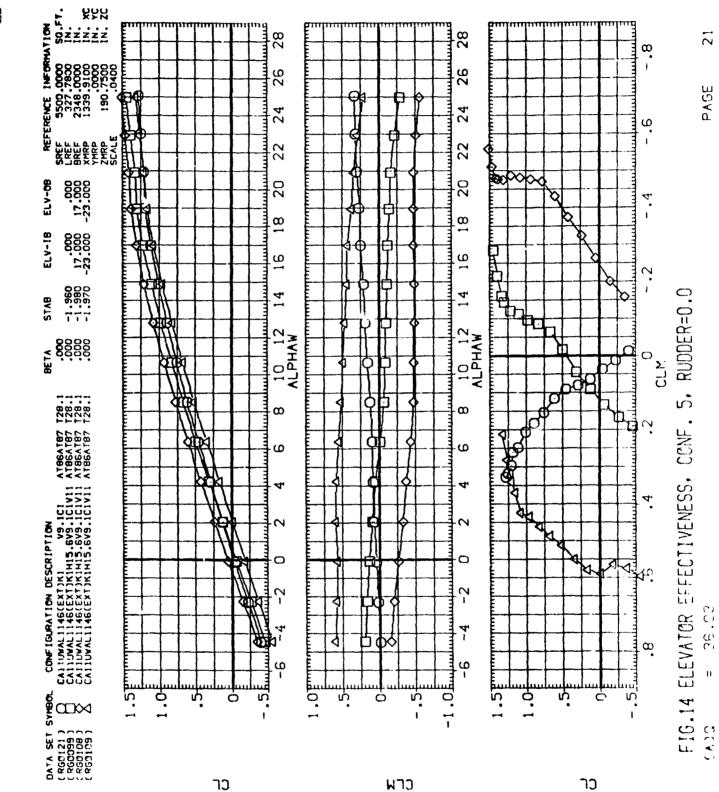








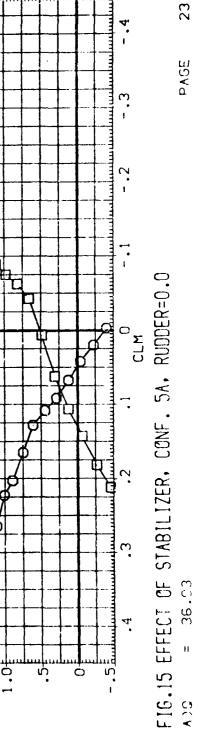
LIFT COEFFICIENT, CL

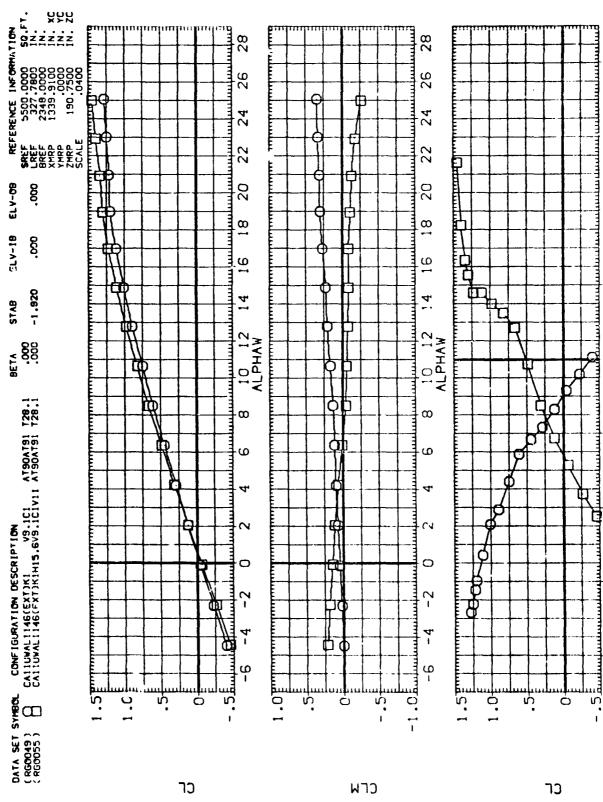


PAGE

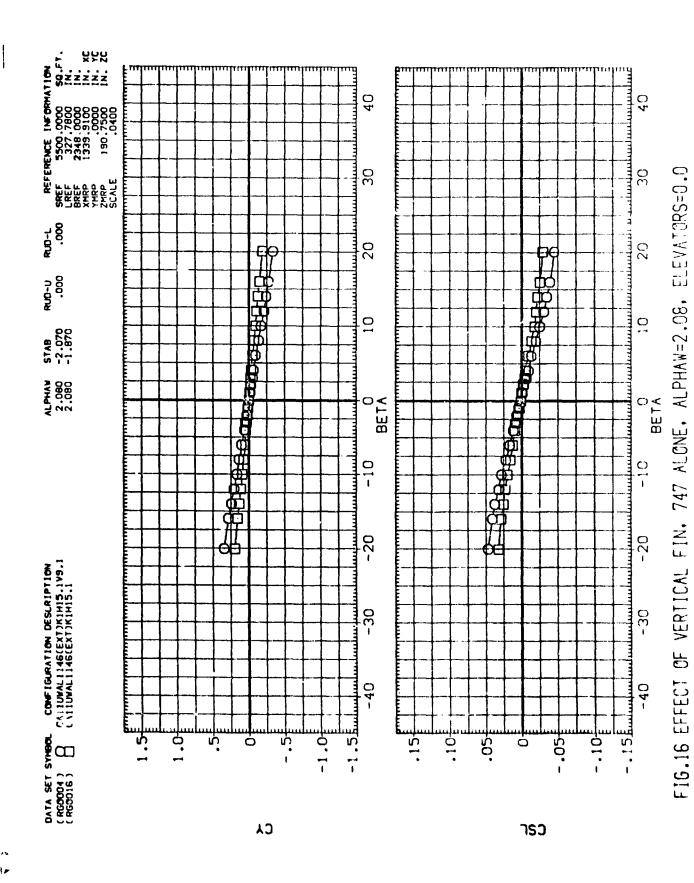
21

LIFT COEFFICIENT, CL



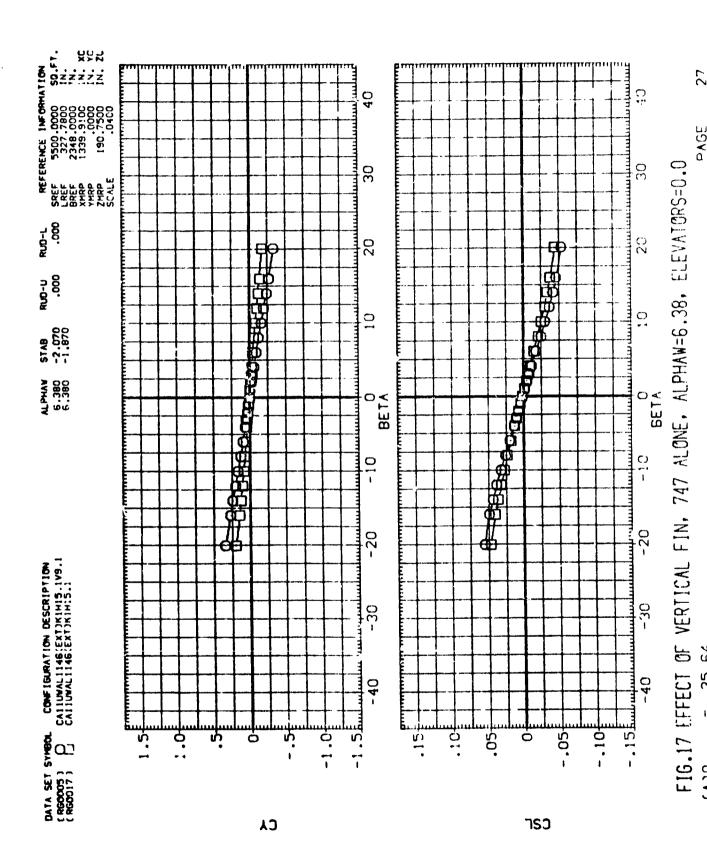


LIFT COEFFICIENT, CL

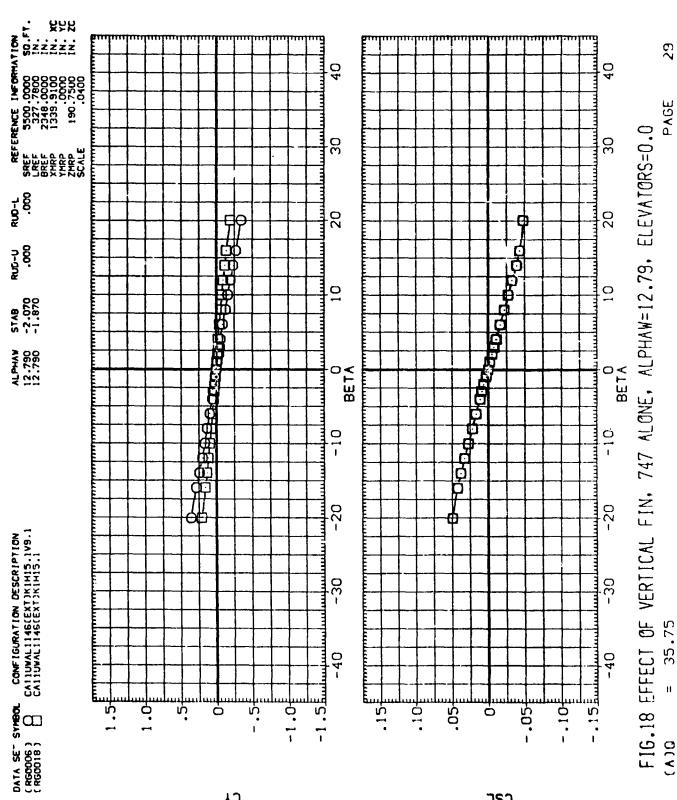


PAGE

ı



35,64

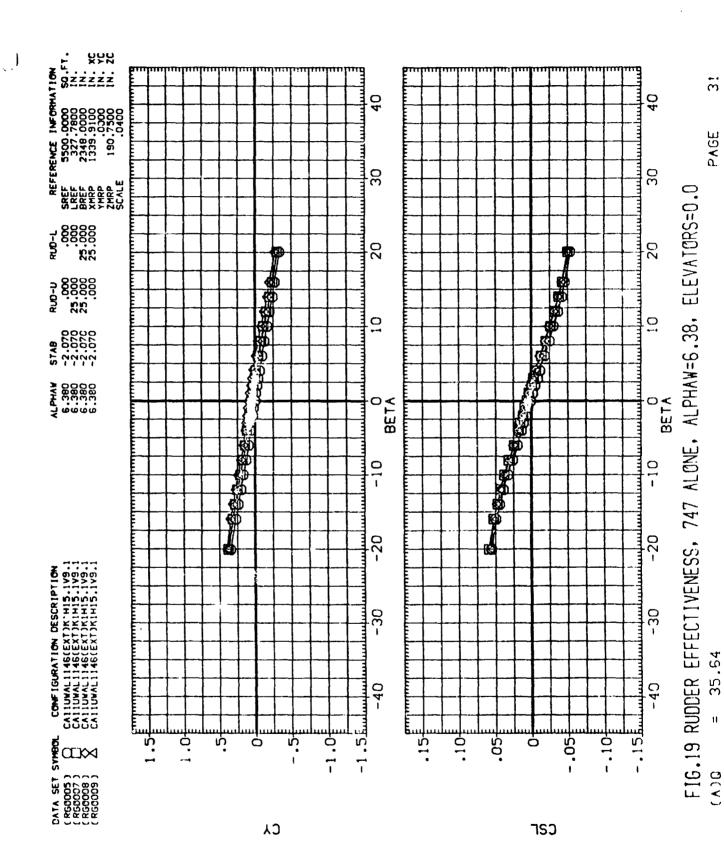


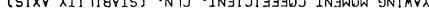
ารว

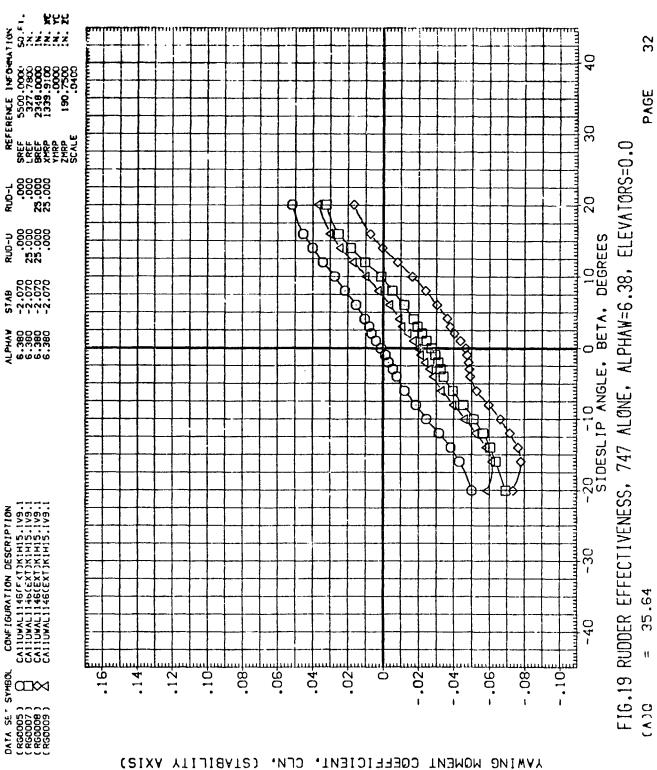
29

CX

-4 t







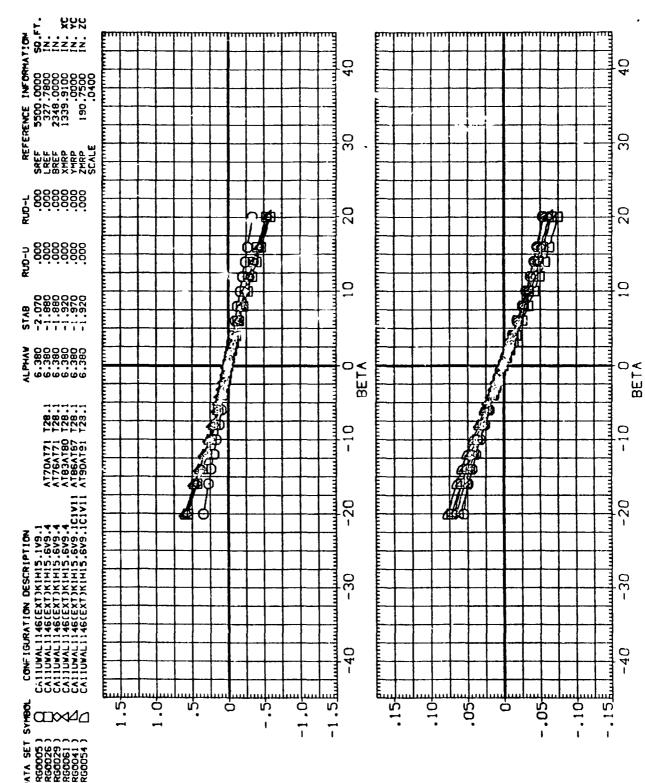
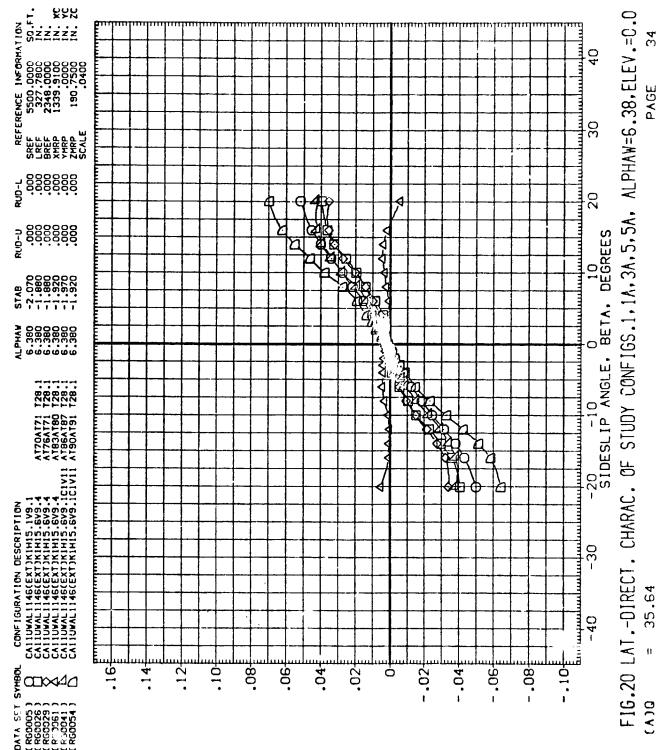


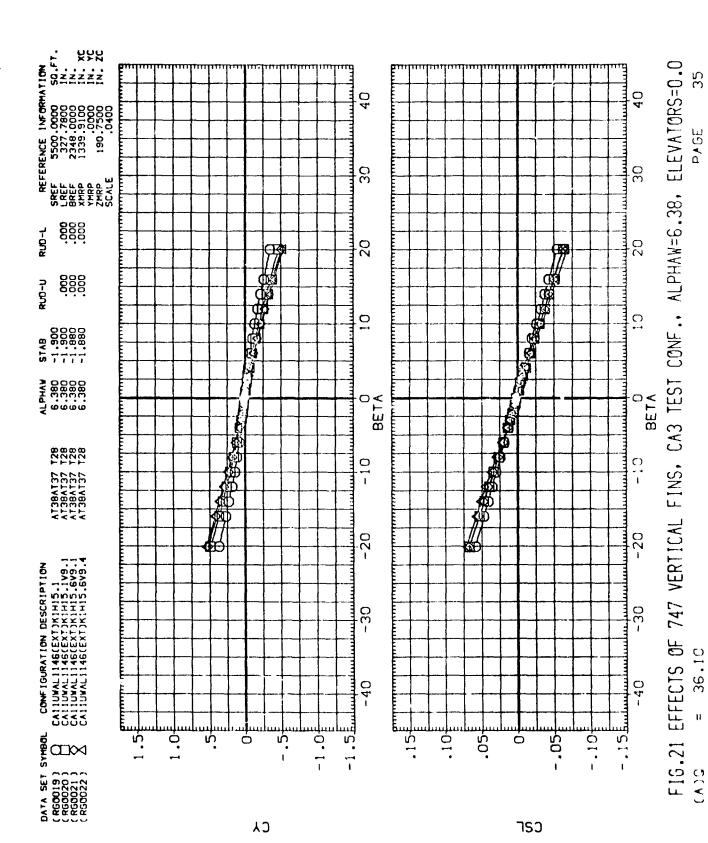
FIG.20 LAT.-DIRECT. CHARAC. OF STUDY CONFIGS.1,1A,3A,5,5A, ALPHAW=6.38,ELEV.=0.0

CA

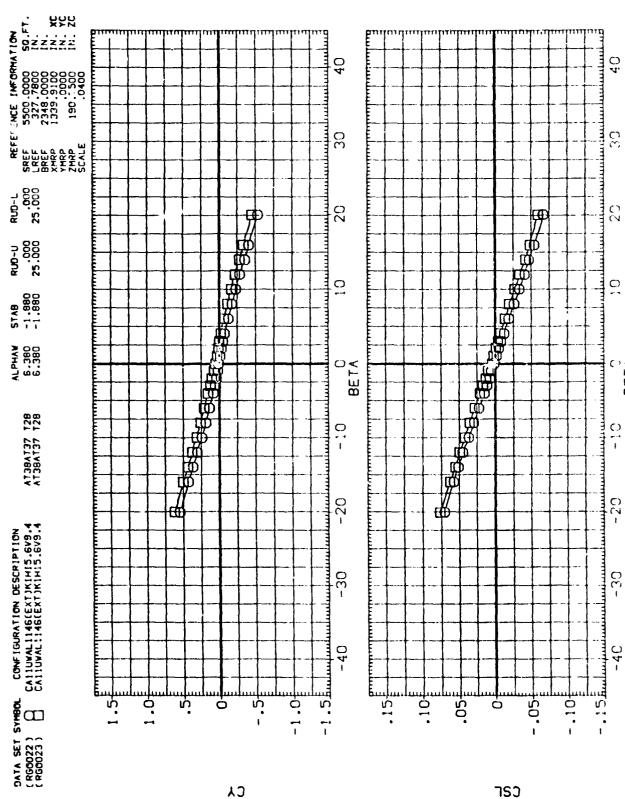
TSO



YAWING MOMENT COEFFICIENT, CLN, (STABILITY AXIS)



ELEVATORS=0.0 PAGE 36 FIG.21 EFFECTS OF 747 VERTICAL FINS, CA3 TEST CONF., ALPHAW=6.38, (A)0 = 36.10 -20 -10 0 10 SIDESLIP ANGLE, BETA, DEGREES



CZF

33

PAGE

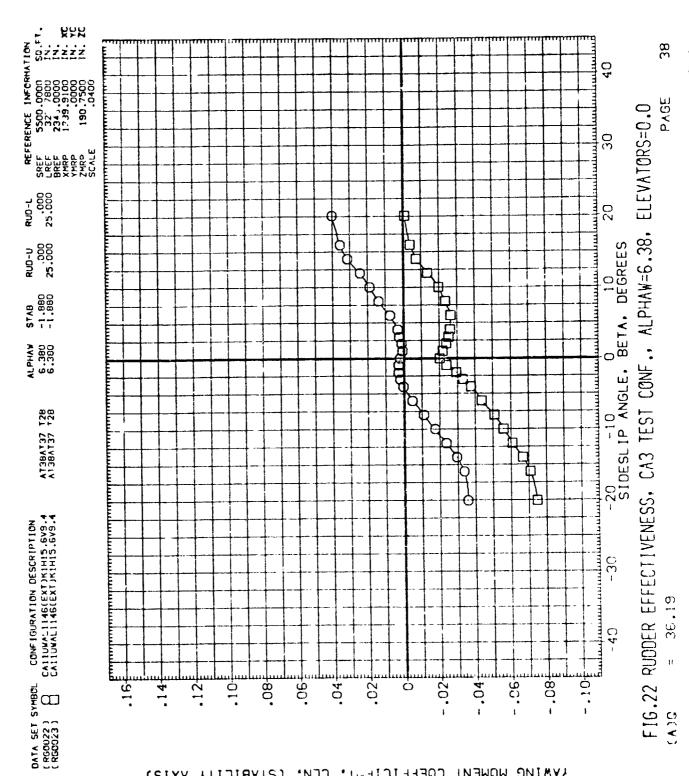
FIG.22 RUDDER EFFECTIVENESS, CA3 TEST CONF., ALPHAW=6.38, ELEVATORS=0.0

0.4

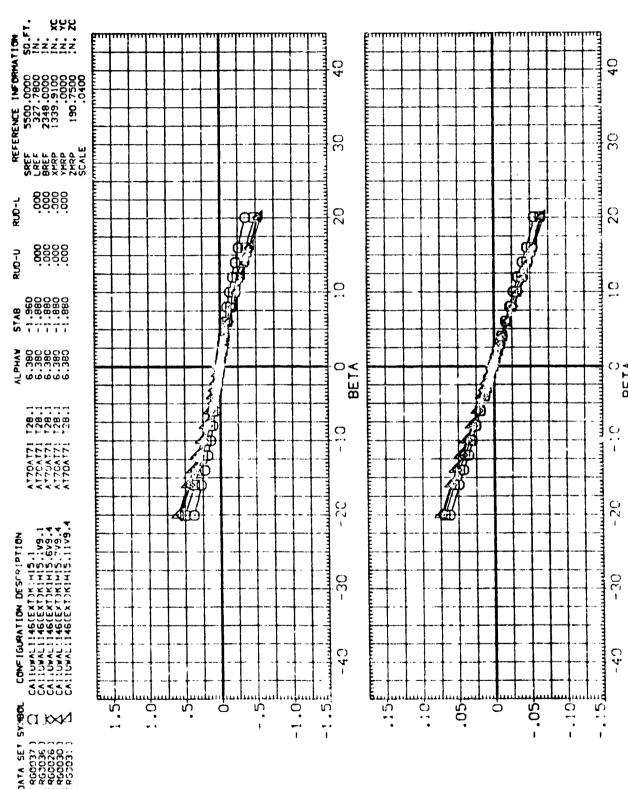
 $\frac{8}{2}$

9

S BETÄ



KAWING MOMENT COEFFICIENT, CLN, (STABILITY AXIS)

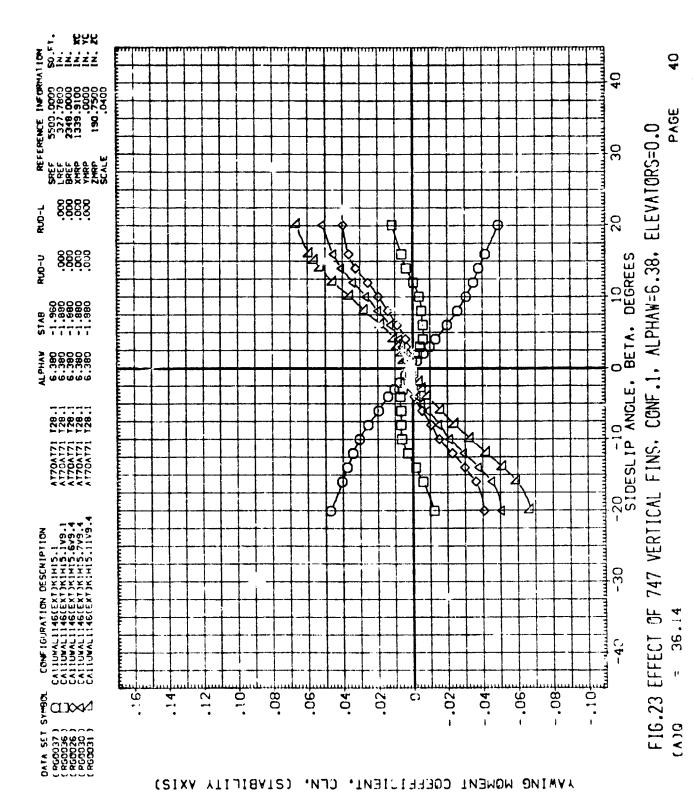


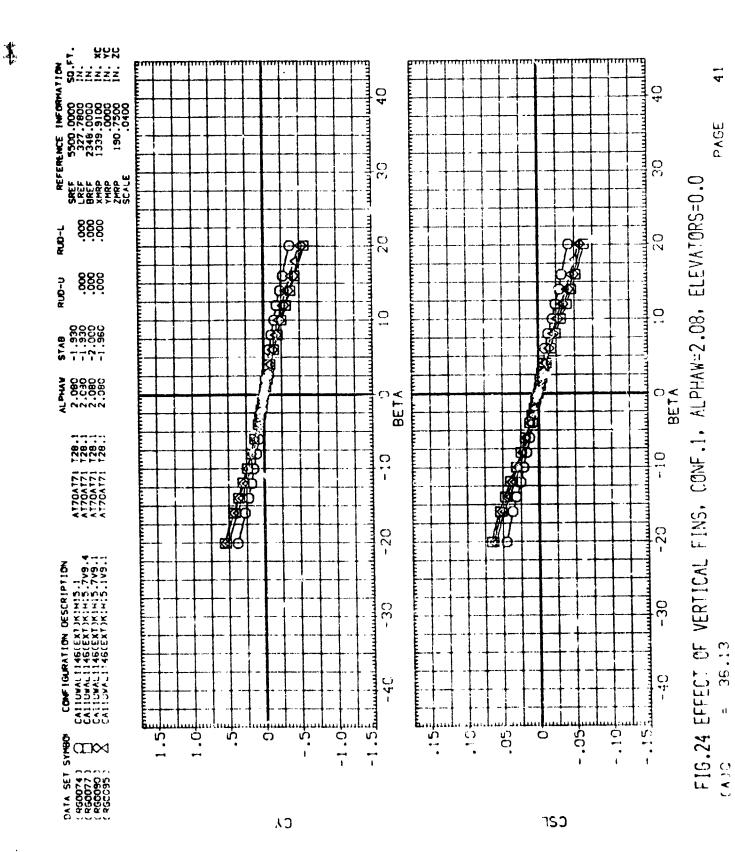
SC

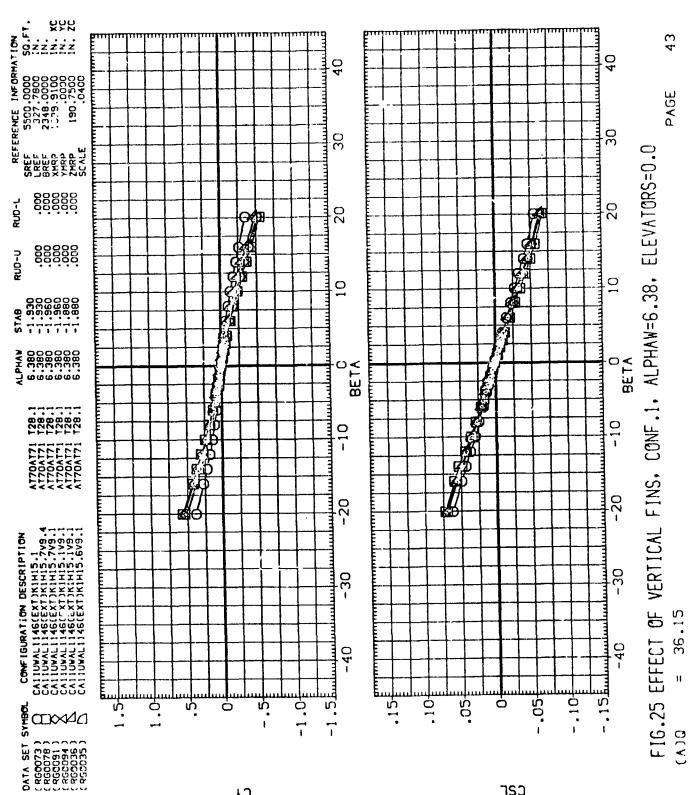
ELEVATORS=0.0

FIG.23 EFFECT OF 747 VERTICAL FINS. CONF.1. ALPHAW=6.38.

LJ

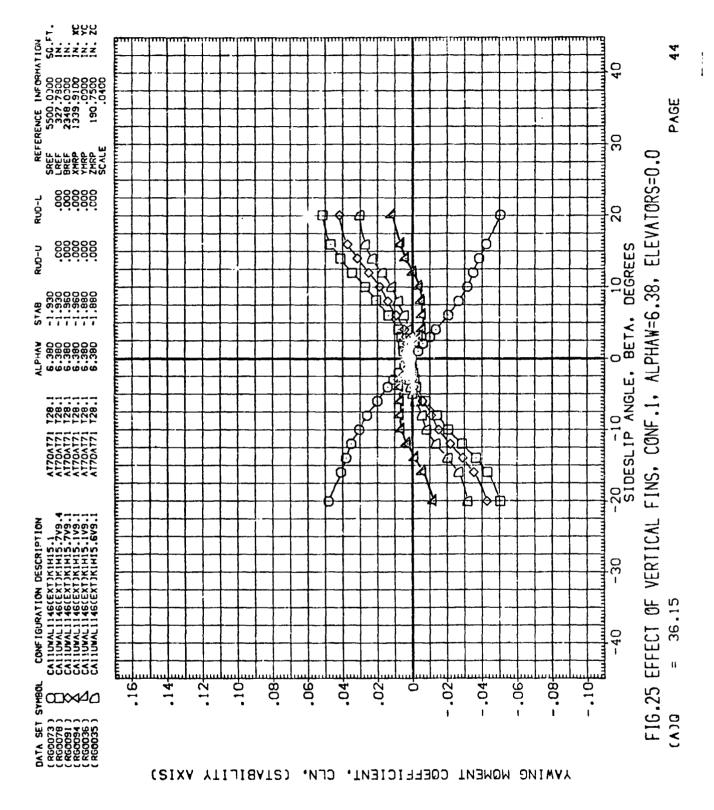


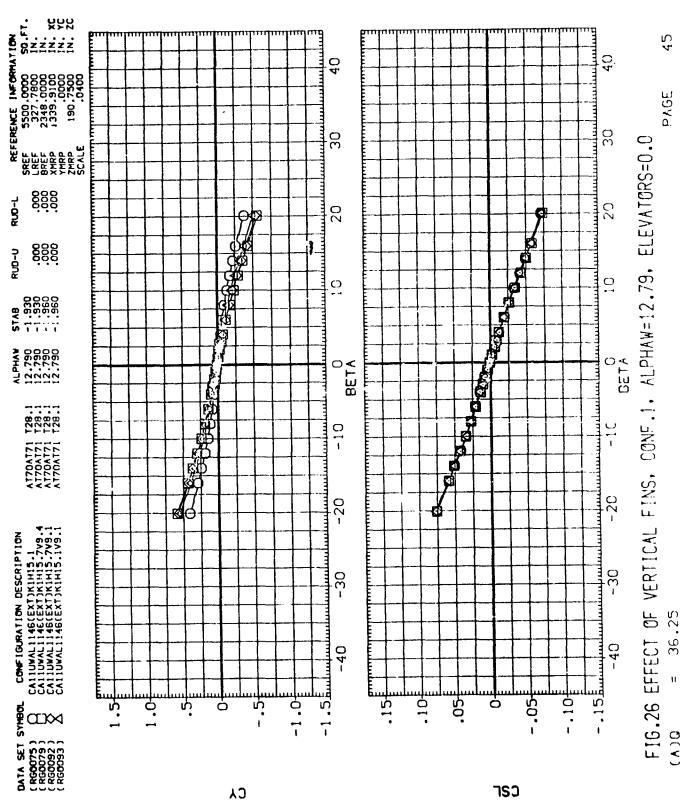




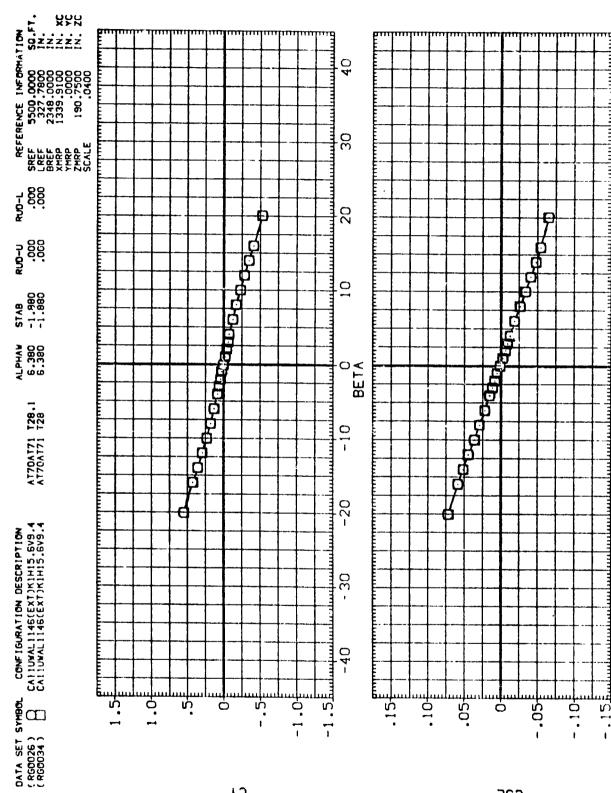
CA

43





YAWING MOMENT COEFFICIENT, CLN, (STABILITY AXIS)



ELEVATORS=0.0 FIG.27 EFFECT OF ORBITER SUPPORT STRUTS, CONF.1, ALPHAW=5.38, Ó BETA

-10

-20

-30

ç) ;;

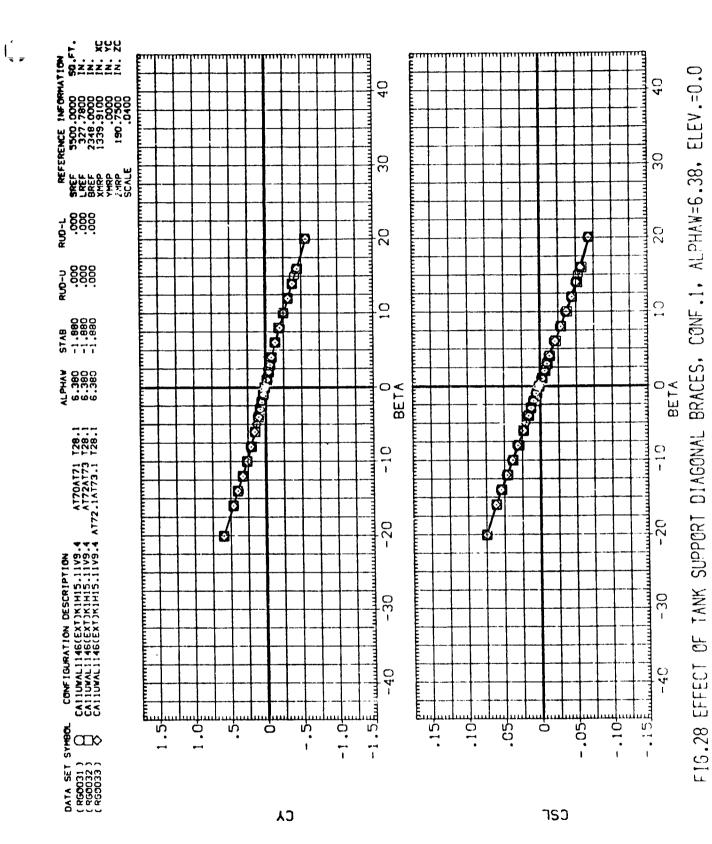
20

CA

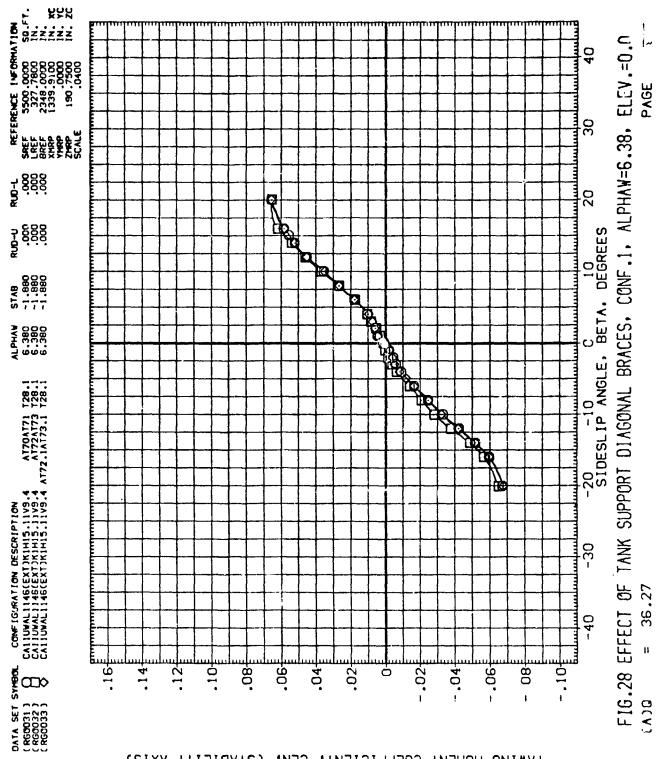
כפר

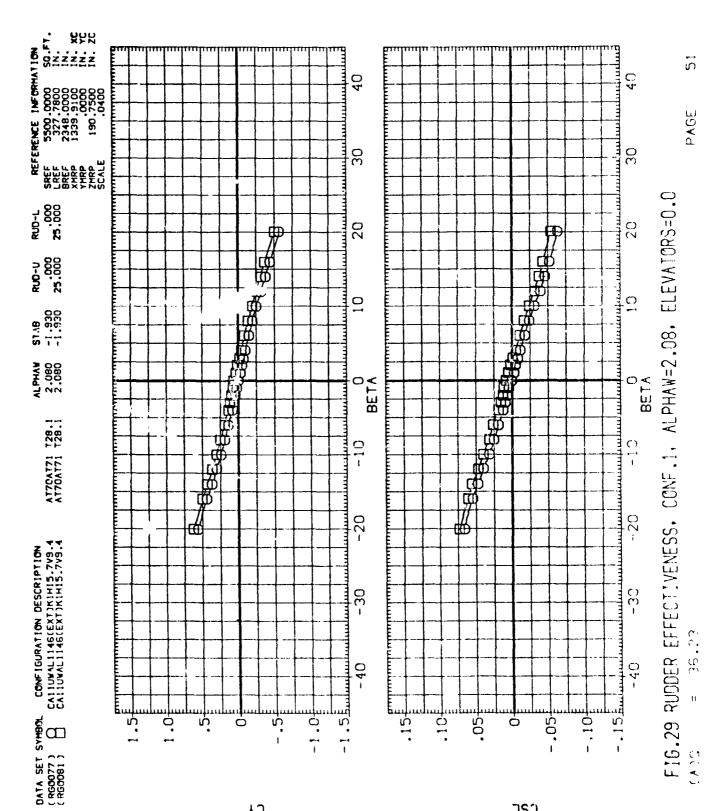
SO FT. SREF 5500.000 SD.FT. LREF 327.7800 IN. LREF 2348.0000 IN. XMRP 1339.9100 IN. XC VMRP 190.7500 IN. XC SCALE .0400 FIG.27 EFFECT OF ORBITER SUPPORT STRUTS, CONF.1. ALPHAW=6.38, ELEVATORS=0.0 PAGE 30 ₹UD-t. .000 20 -20 -10 0 10 SIDESLIP ANGLE BETA, DEGREES ALPHAW 6.380 6.380 AT70AT71 T28.1 AT70AT71 T28 DATA SET SYMBOL CONFIGURATION DESCRIPTION (RGCO26) CAILUVAL 1146(EXT)KIHIS.6V9.4 (RGCO34) CAILUVAL 1146(EXT)KIHIS.6V9.4 -40 16 -.02 ₹90*--.08€ <u>"</u>ф 到90. .04m .02春 14 .124 ₩. -.04 D(V)

YAWING MOMENT COEFFICIENT, CLN, (STABILITY AXIS)



YAWING MOMENT COEFFICIENT, CLN, (STABILITY AXIS)





L J

CZF

5

PAGE

1.

0.3

-40

-.10

于90.-

- .08

-.04

-.02€

YAWING MOMENT COEFFICIENT, CLN. (STABILITY AXIS)

.02

.04E

CR60077 | CR60081 | C

16

.14年

.12

.10H

980.

.06E

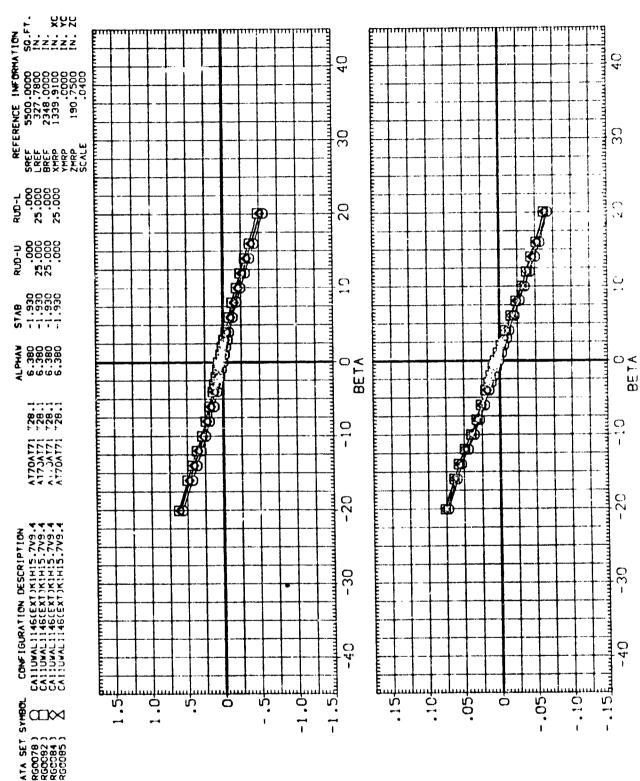
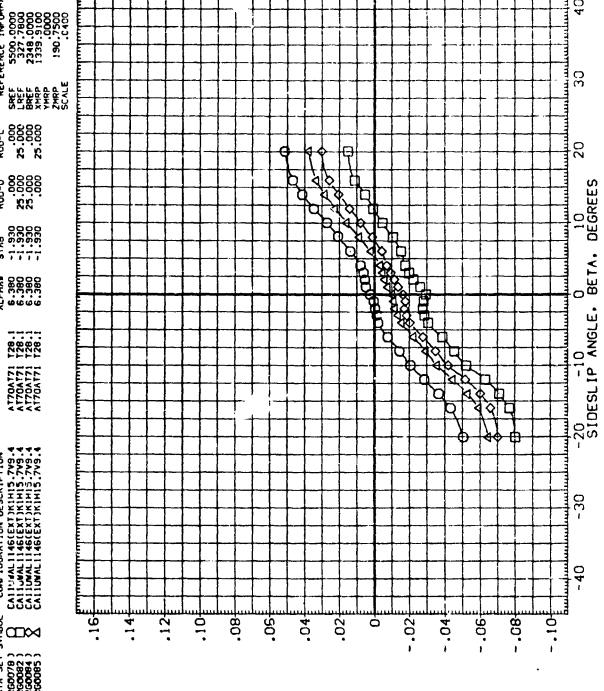


FIG.30 RUDDER EFFECTIVENESS, CONF.1(280 SO.FT. HTF), ALPHAW=6.38, ELEVATORS=0.0 DASE

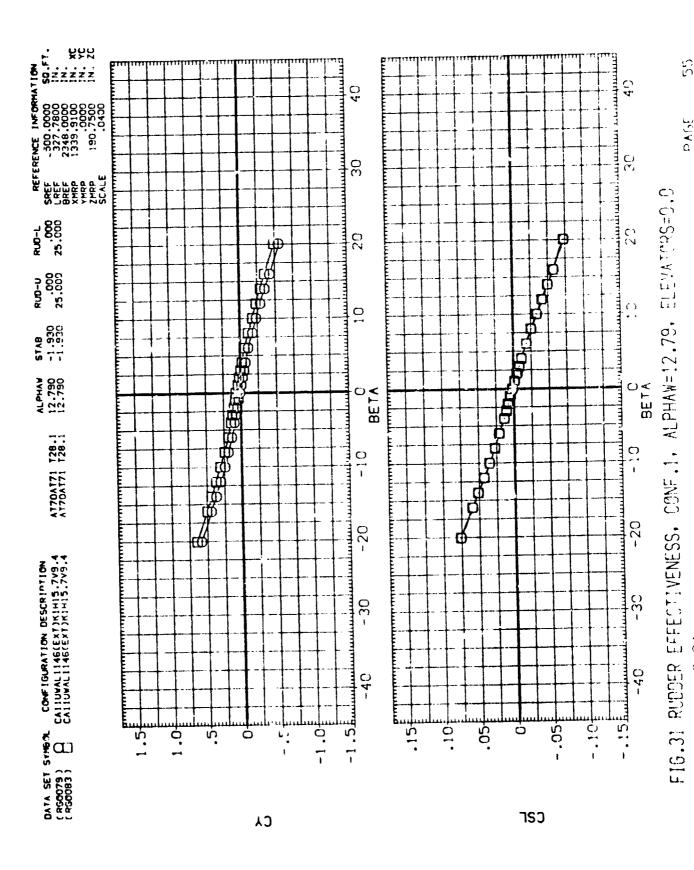
CA

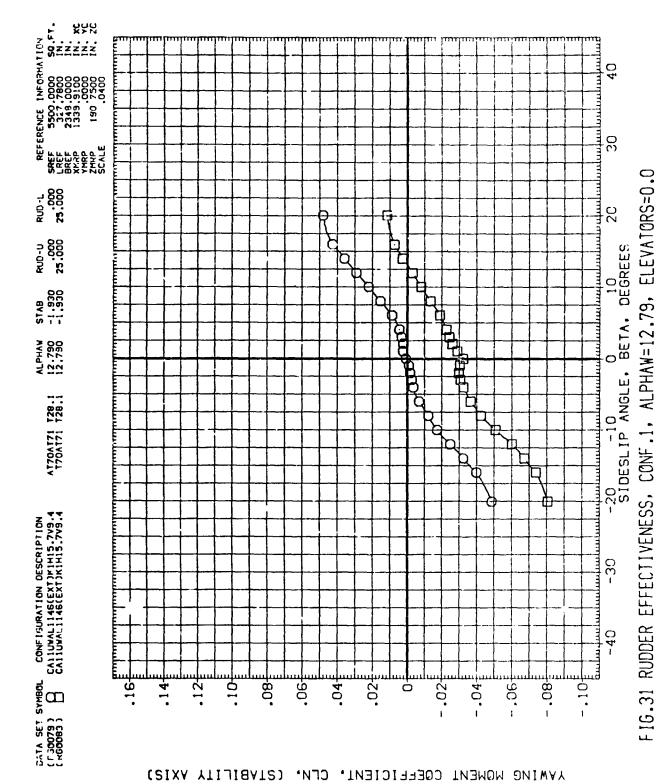
CSF



1

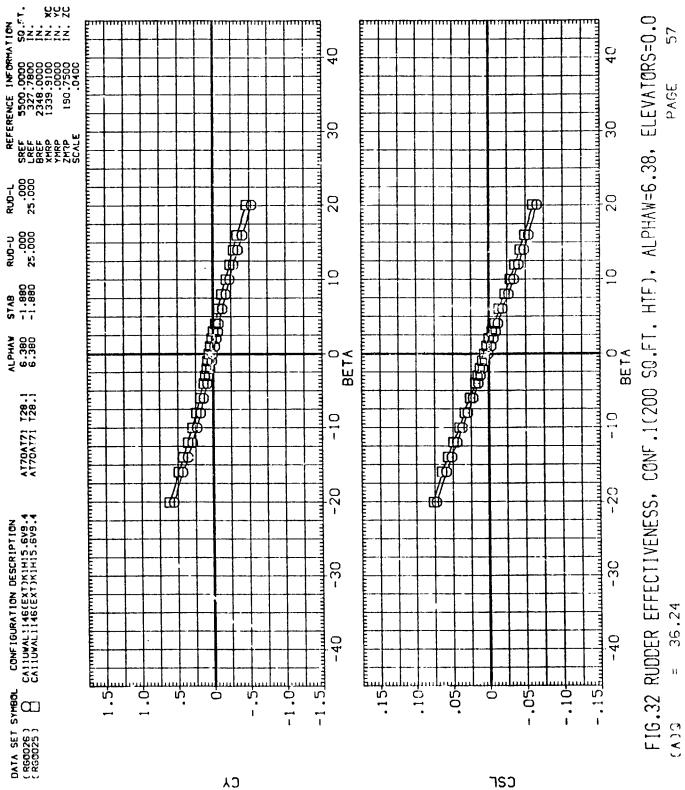
FIG.30 RUDDER EFFECTIVENESS. CONF.1(280 SQ.FT. HTF), ALPHAW=6.38, ELEVATORS=0.0 54





PAGE

(A)Q



CSF

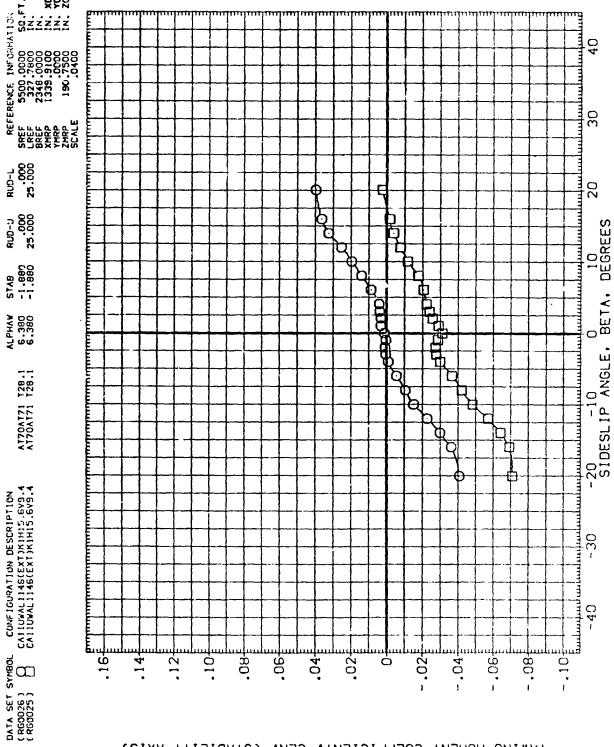
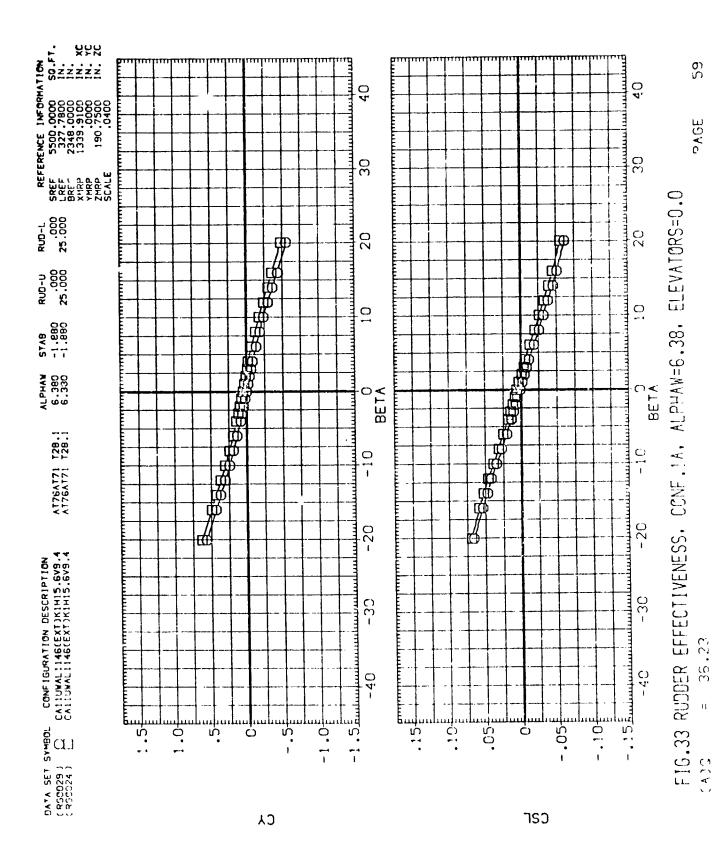


FIG.32 RUDDER EFFECTIVENESS, CONF.1(200 SQ.FT. HTF), ALPHAW=6.38, ELEVATORS=0.0 (A)Q



REFERENCE INFORMATION 5503.0000 327.7800 2348.0000 1339.9100 190.7500 SREF LREF BREF XMRP YMRP ZMRP SCALE RUD-L .000 25.000 700-0 25.000 \$7.48 -1.890 -1.880 AL P!4AW 6.390 6.380 AT76AT71 T28.1 AT76AT71 T28.1 DATA SET SYMBOL CONFIGURATION DESCRIPTION (RG0029) CATIONALITABLEXTYKIHIS.6V9.4 (RG0024) CATIONALITABLEXTYKIHIS.6V9.4 .16 -.02年 щ. О . 180. --04長 <u> 190.</u> 如季 щи О .04 <u>-</u>90.-

PAGE

FIG.33 RUDDER EFFECTIVENESS, CONF.1A, ALPHAW=6.38, ELEVATORS=0.0

36.23

(A)0

4 0

30

20

-20 -10 0 10 SIDESLIP ANGLE, BETA, DEGREES

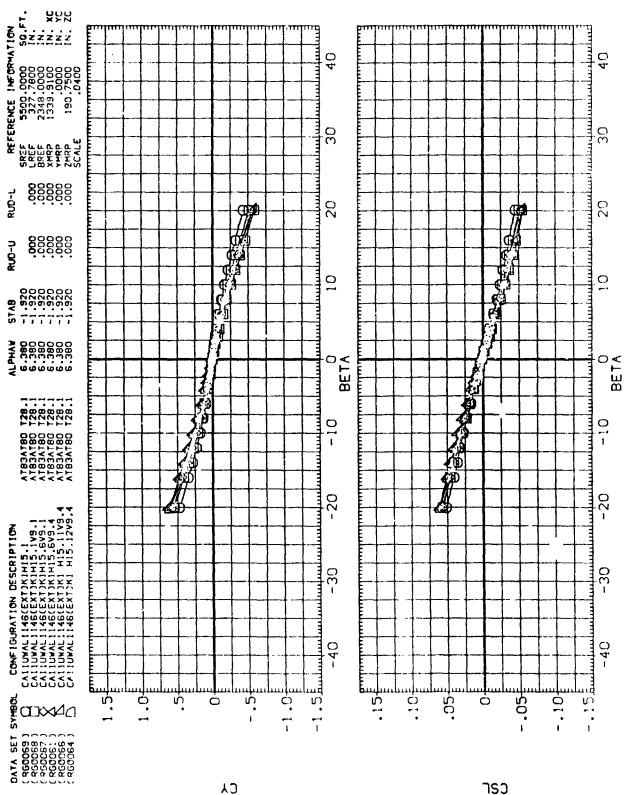
-30

-40

-101.

-- 08

YAWING MOMENT COEFFICIENT, CLN. (STABILITY AXIS)



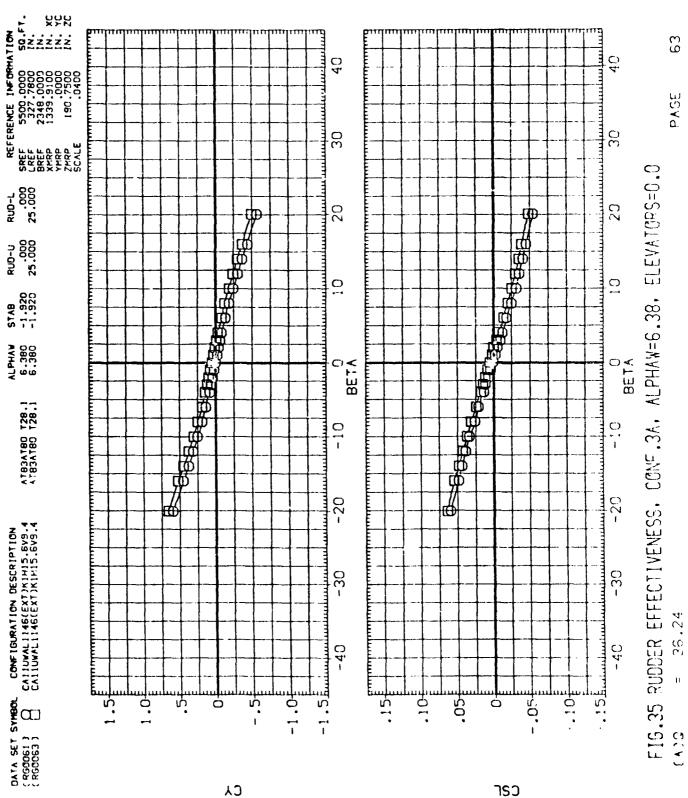
PAGE

ELEVATORS=0.0

FIG.34 EFFECT OF VERTICAL FINS, CONF.3A, ALPHAW=6.38,

62

PAGE



CSF

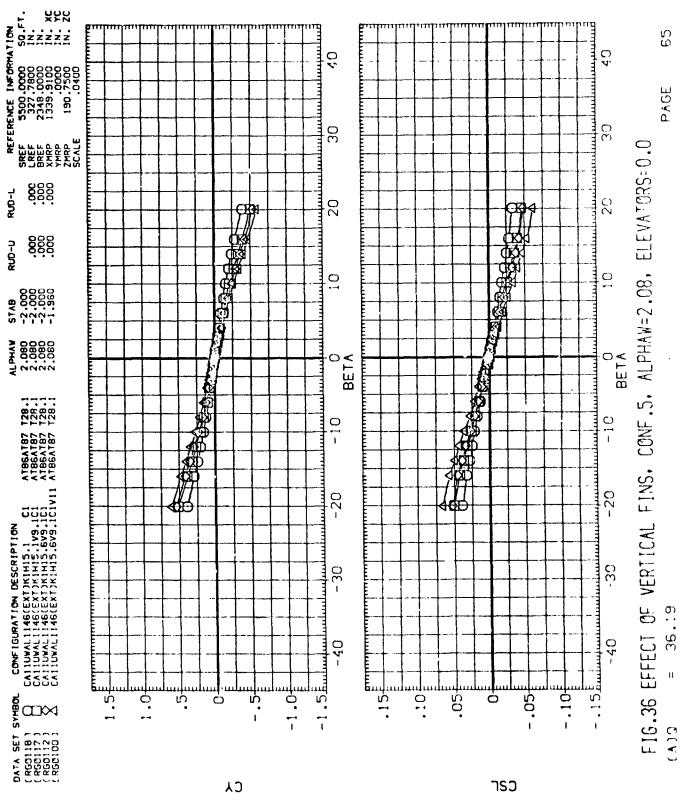
63

PASE

64

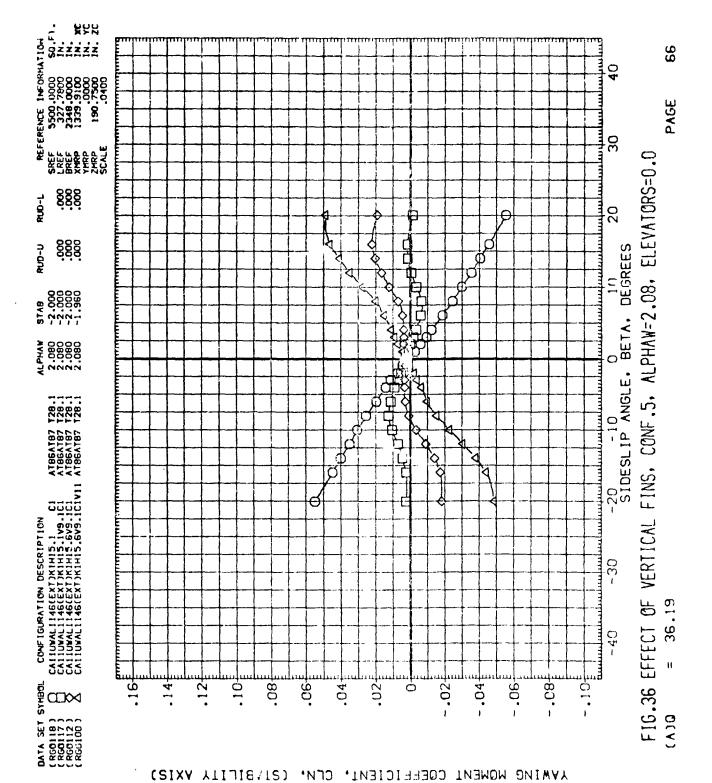
PAGE

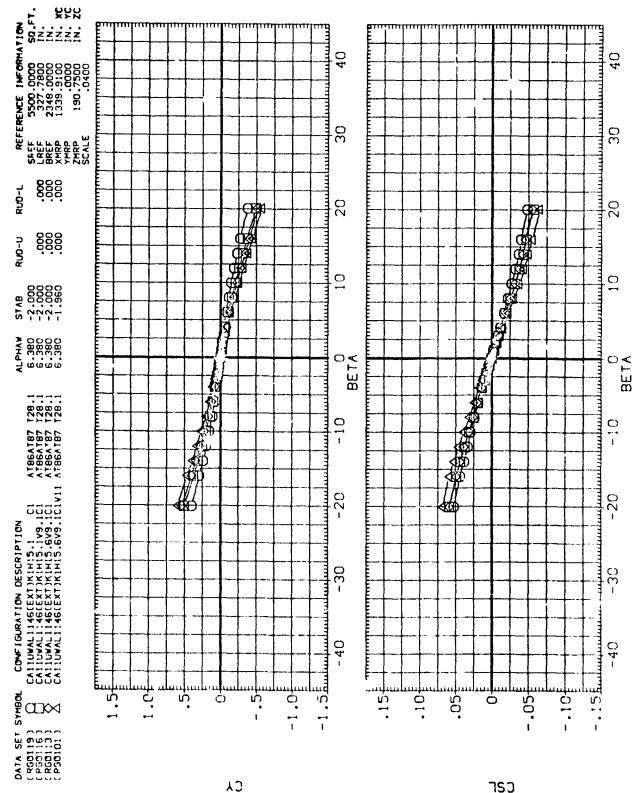
(A)0



CZF

PAGE





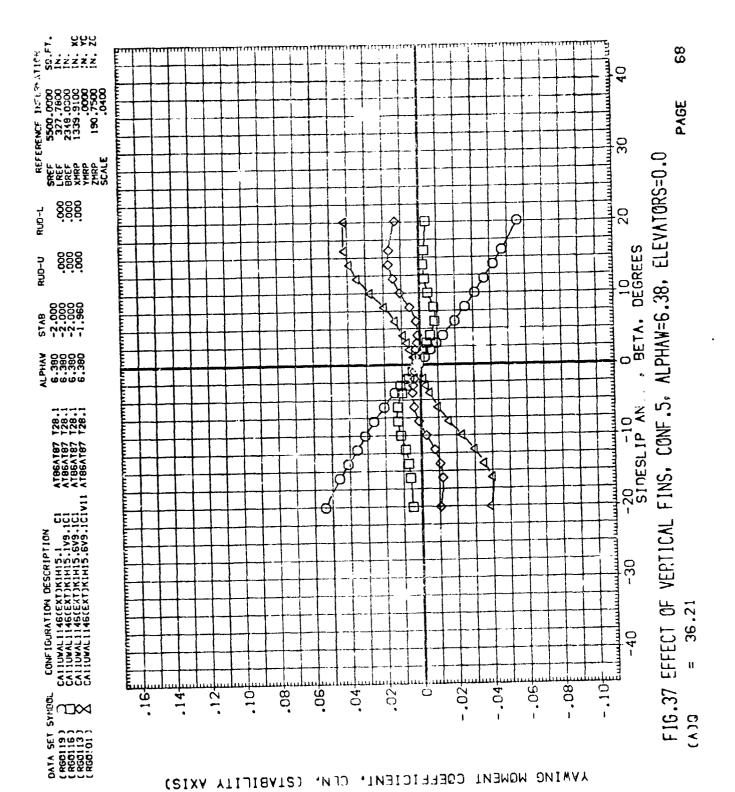
CZF

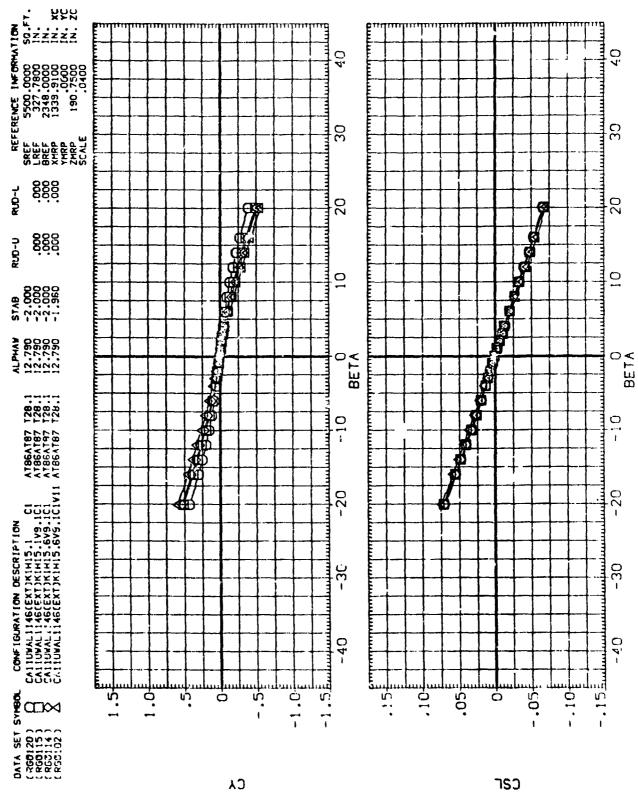
PAGE

ELEVATORS=0.0

FIG.37 FFFECT OF VERTICAL FINS, CONF.5, ALPHAW=6.38,

40



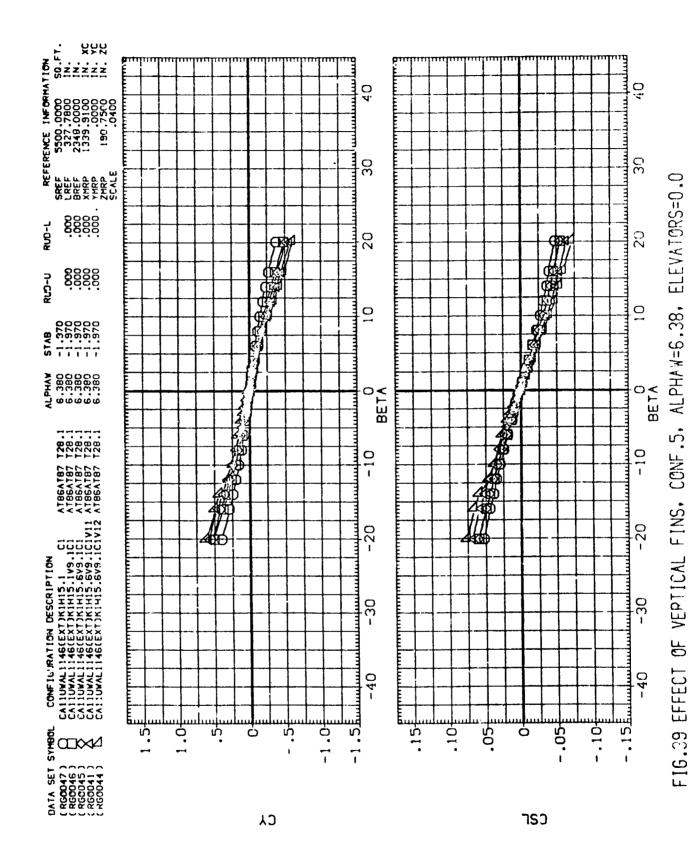


CZF

PAGE

EFFECT OF VERTICAL FINS. CONF.5A. ALPHAW=12.79. ELEVATORS.3.0
= 36.3:

F16.38



PAGE

40

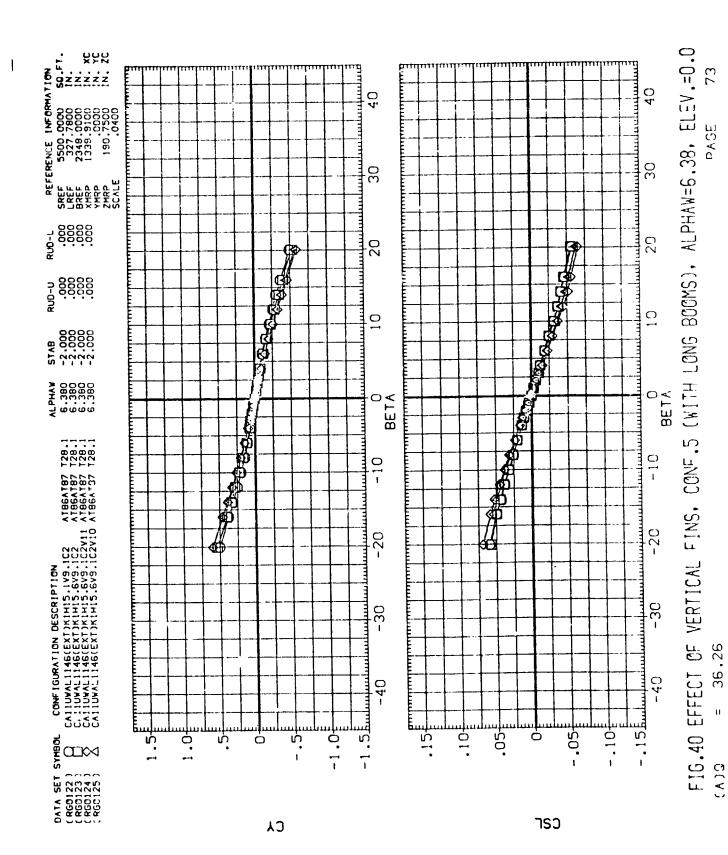
PAGE

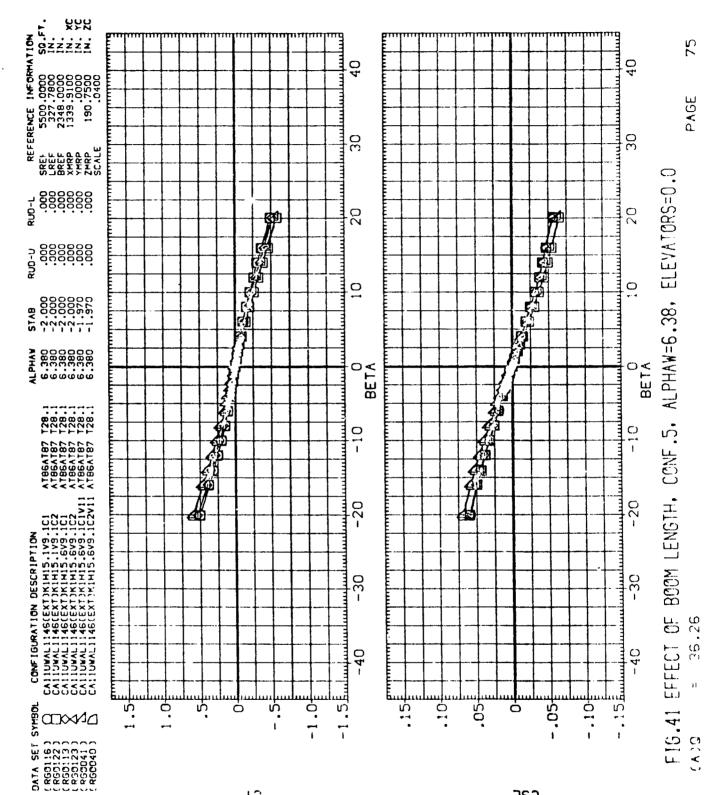
FINS, CONF.5, ALPHAW=6.38, ELEVATORS=0.0

VERTICAL

EFFECT OF V = 36.20

F16.39 (





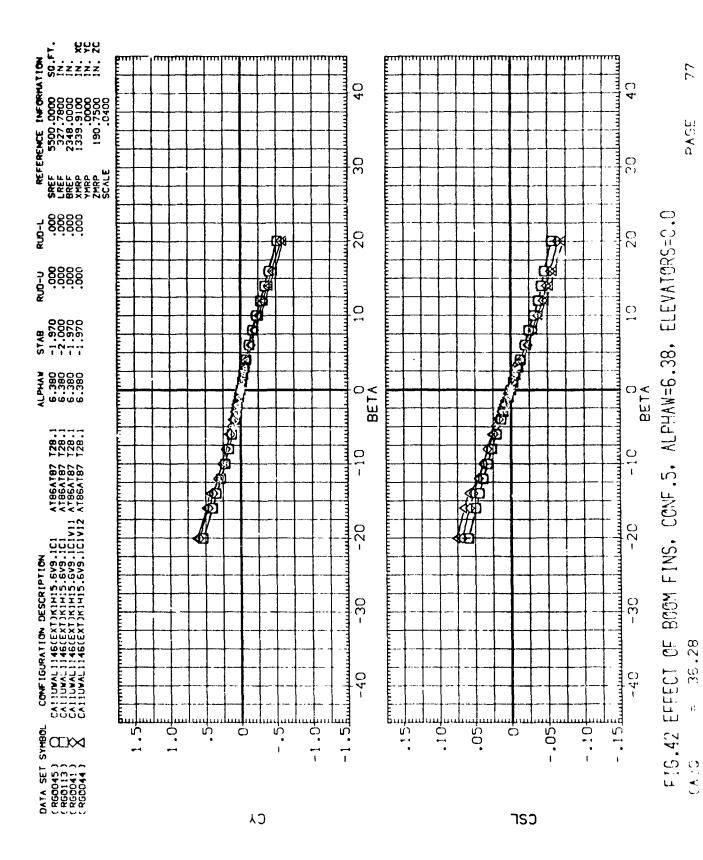
ารว

CA

1

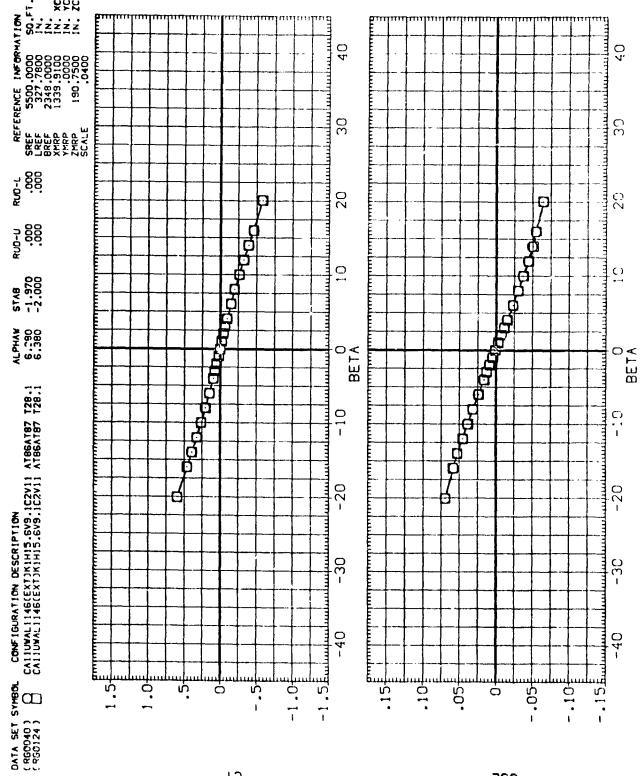
PAGE

YAWING MOMENT COEFFICIENT, CLN, (STABILITY AXIS)



∃S∀d

5500.0000 S0.11.
327.7800 IN.
327.7800 IN.
1339.9100 IN. XC
190.7500 IN. XC
190.7500 IN. XC
190.7500 IN. XC PAGE REFERENCE : SREF 5500. SREF 2348. WRP 1339. YMRP 190. ZMRP 190. SCALE ELEVATORS=0,0 20 SIDESLIP ANGLE, BETA, DEGREES STAB -1.970 -2.000 -1.970 -1.970 BOOM FINS, CONF.5, ALPHAW=6.38, CONFIGURATION DESCRIPTION
CATHUMALH46(EXT)KHH5.6V9.1C1 ATBGATB7 128.1
CATHUMALH46(EXT)KHH5.6V9.1C1 ATBGATB7 128.1
CATHUMALH46(EXT)KHH5.6V9.1C1V11 ATBGATB7 128.1
CATHUMALH46(EXT)KHH5.6V9.1C1V12 ATBGATB7 128.1 արավուտեստերուկում -40 FIG.42 EFFECT OF .16 -.04 -,08₽ -.06€ 子.15 ф П DATA SET SYMYOL (RG0045) | C (RG0113) | C (RG0041) | C (RG0041) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (RG0044) | C (R 14 <u>.06</u> 044 -.02 .02 .12 -08 YAWING MOMENT COEFFICIENT, CLN, (STABILITY AXIS)

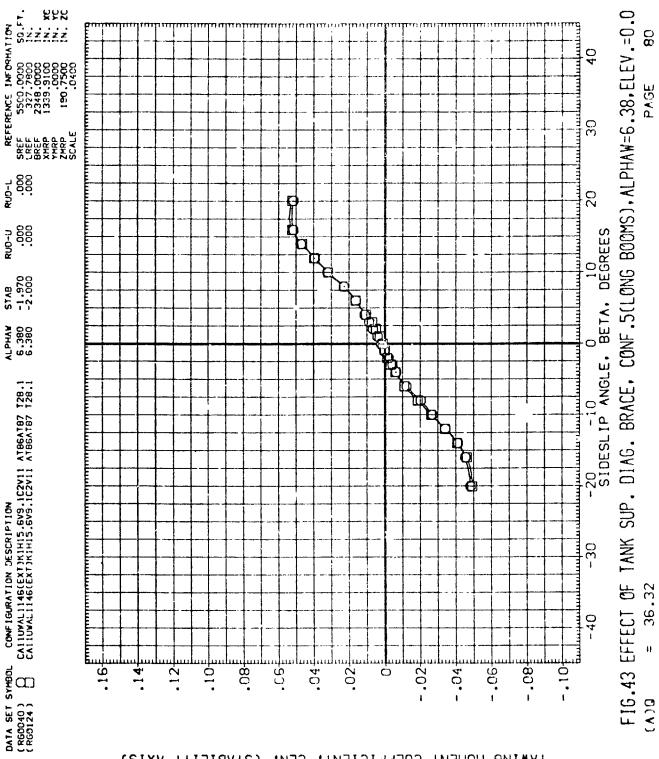


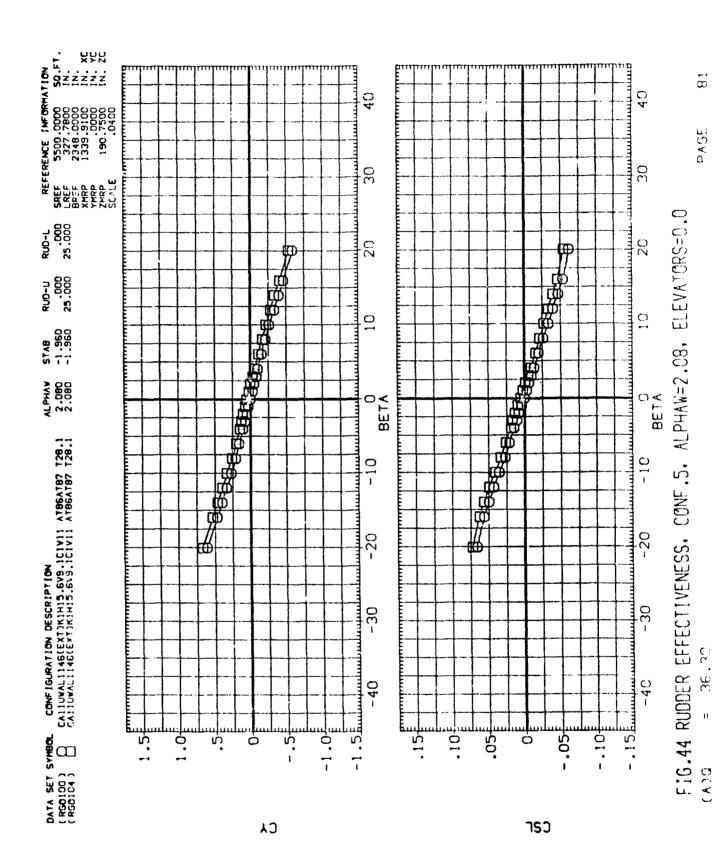
.05

CZF

BRACE. CONF.5(LONS BOOMS).ALPHAW=6.38.ELEV.=0.0 FIG.43 EFFECT OF TANK SUP. DIAG.

 \Box





<u>æ</u>

PASE

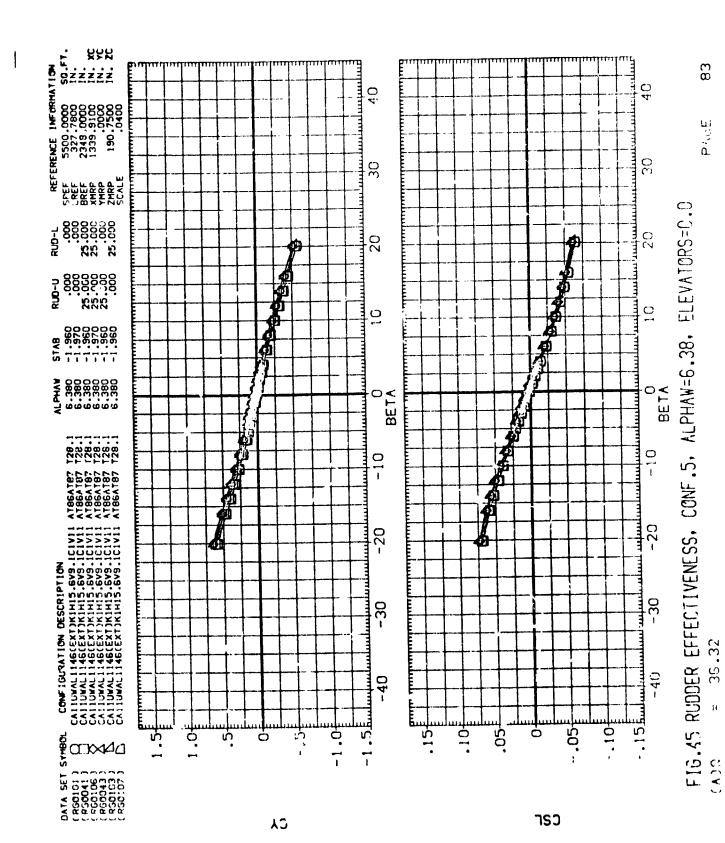
82

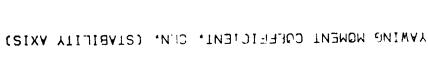
PAGE

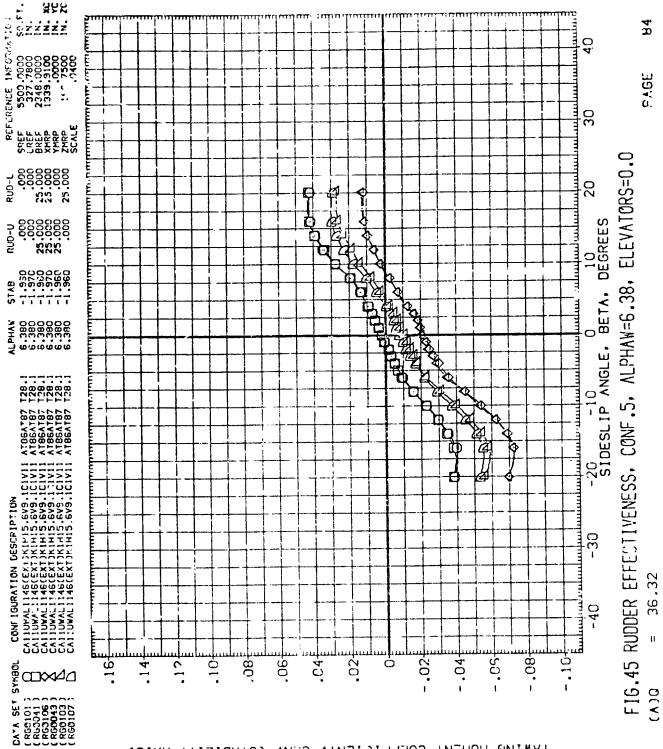
FIG.44 RUDDER EFFECTIVENESS, CONF.5, ALPHAW=2.08, ELEVATORS=0.0

CAJG

The service of carbon at a first trans the







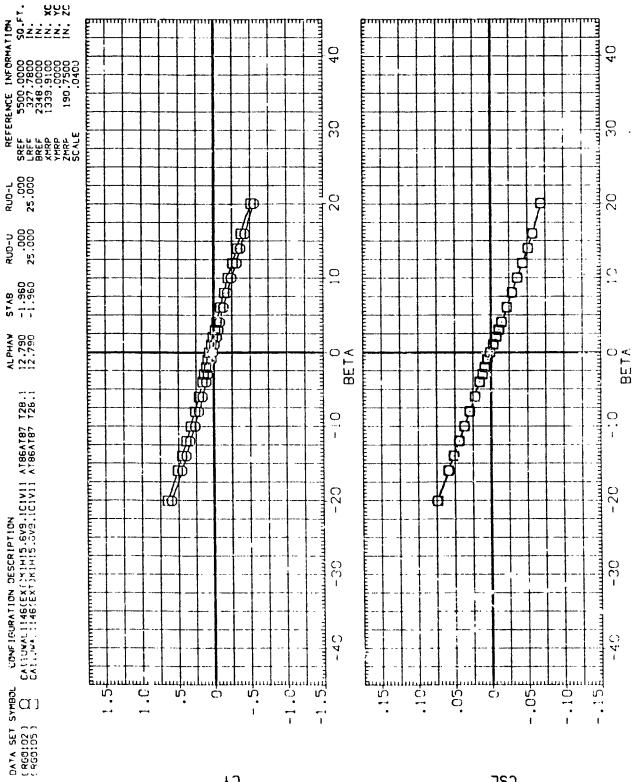


FIG.46 RUDDER EFFECTIVENESS, CONF.5, ALPHAW=12,79, ELEVATORS=0.0

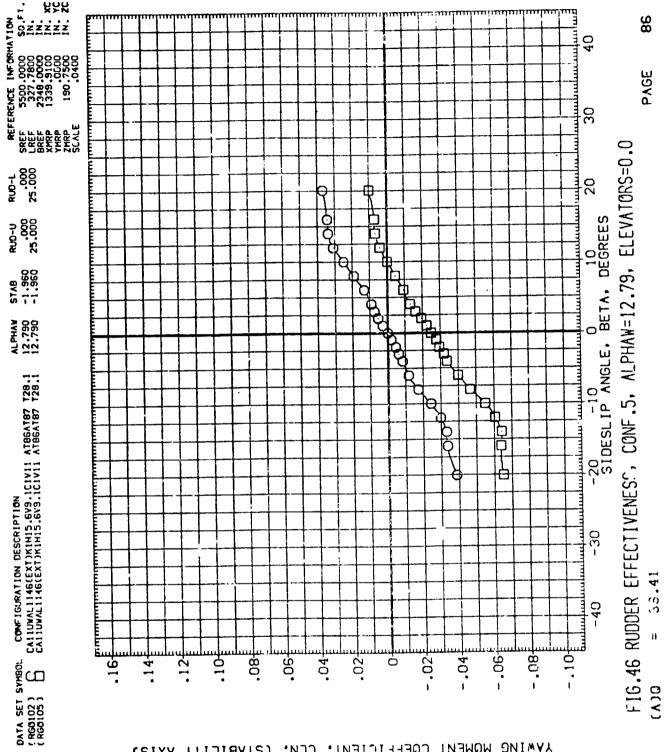
CSF

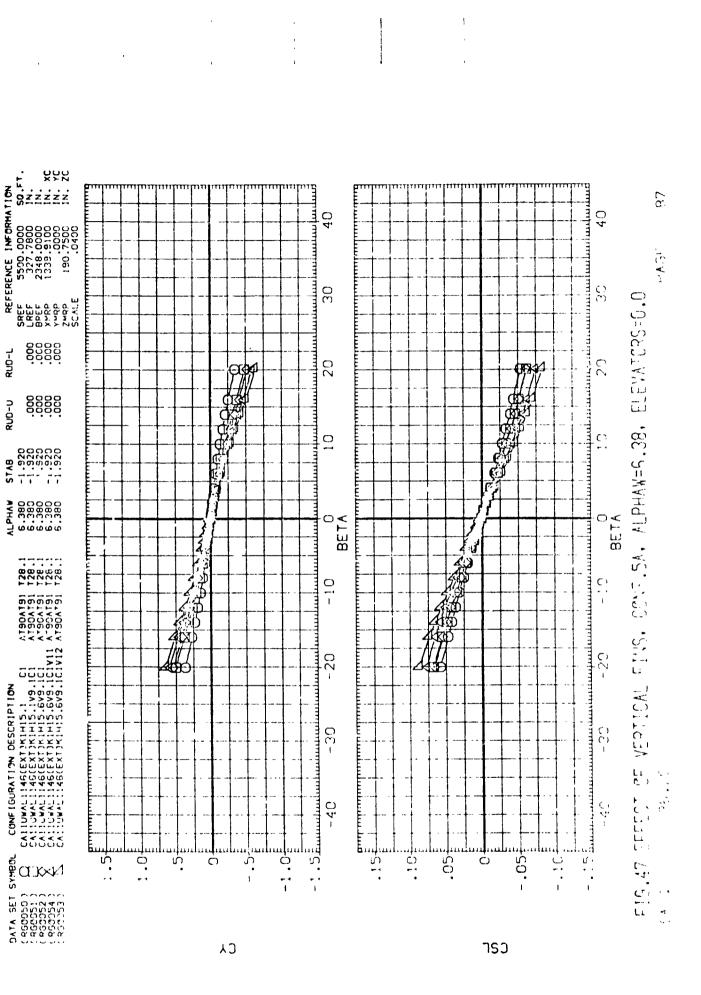
82

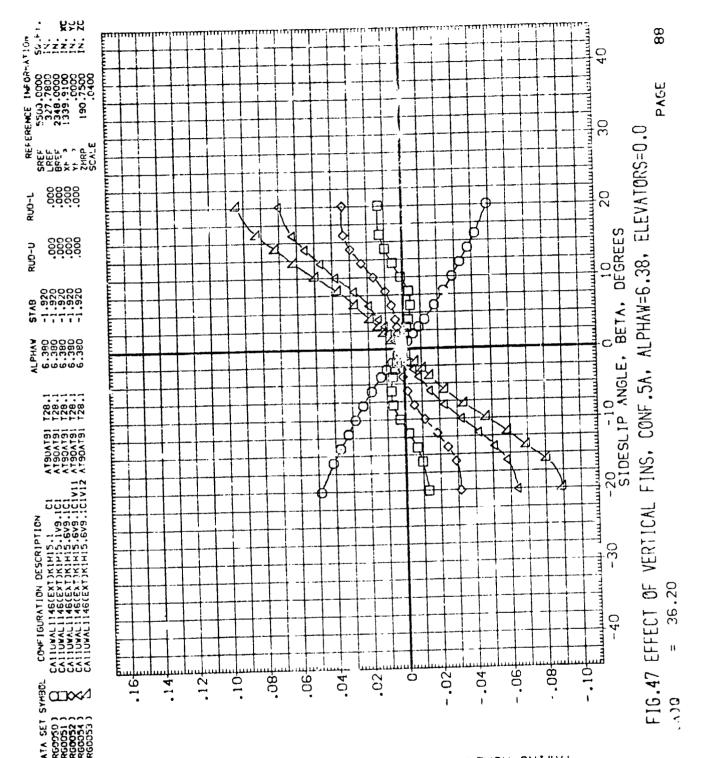
PAGE

CA

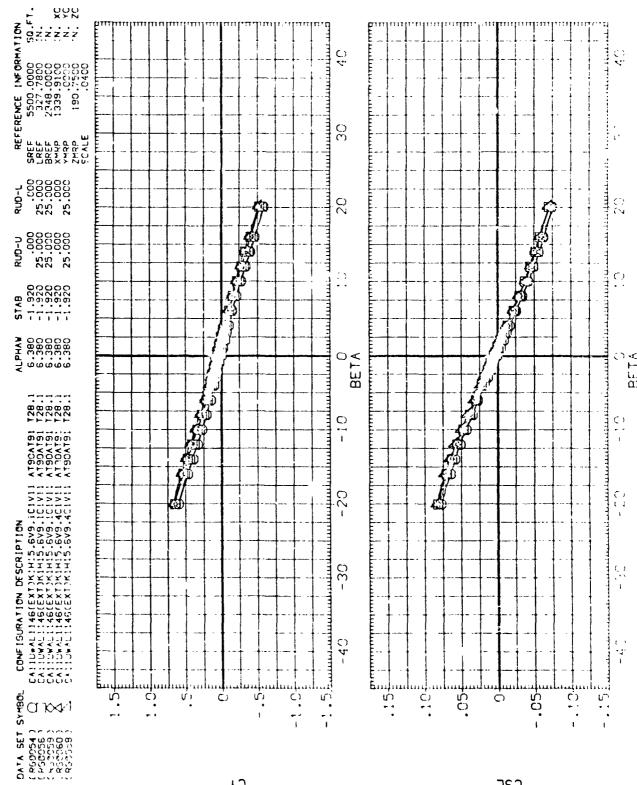
YAWING MOMENT COEFFICIENT, CLN, (STABILITY AXIS)







YAWING MOMENT COEFFICIENT, CLN, (STABILITY AXIS)

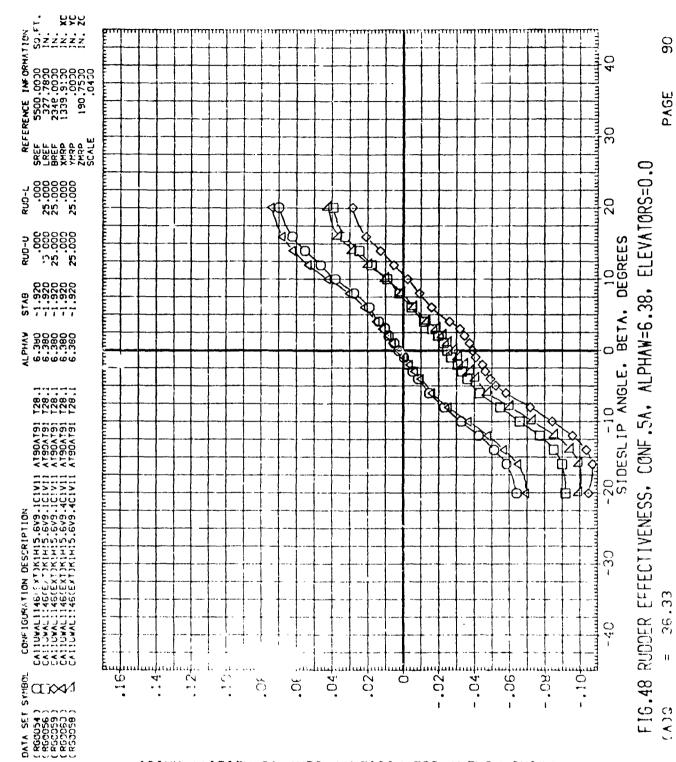


A_PHAW=6.38. i V C(1) (1)

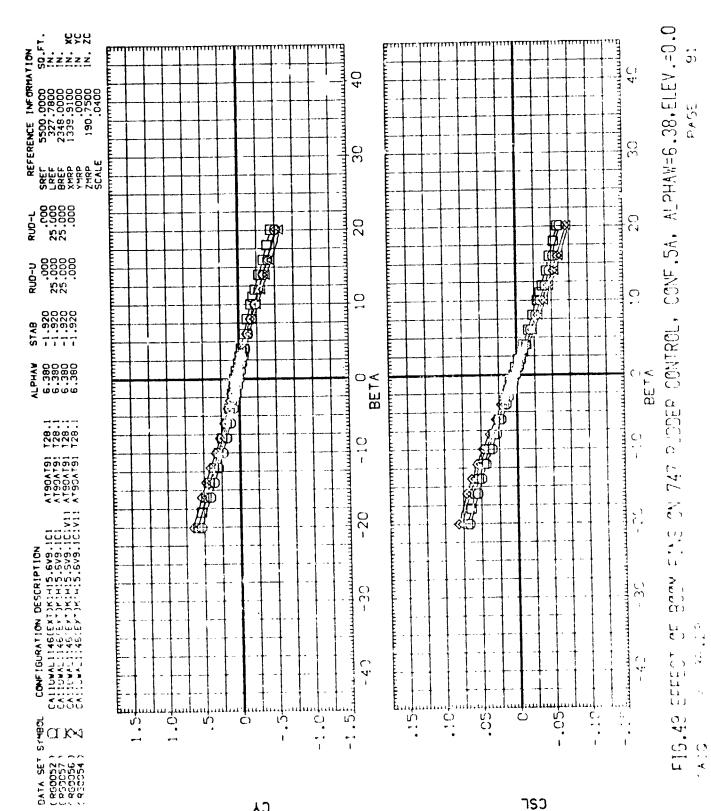
TSD

ELEVATORS-0.0

 $\mathsf{C}\mathsf{A}$

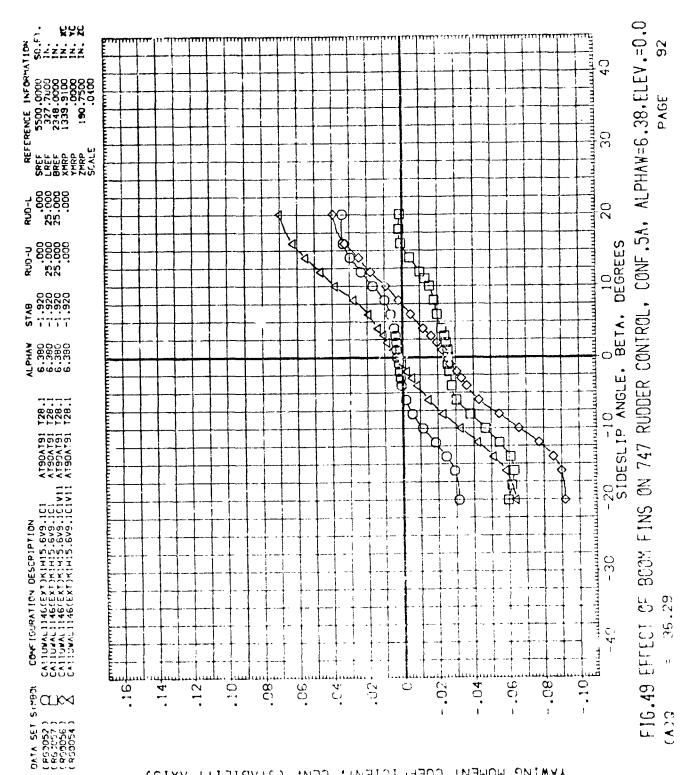


YAWING MOMENT COEFFICIENT, CLN, (STABILITY AXIS)

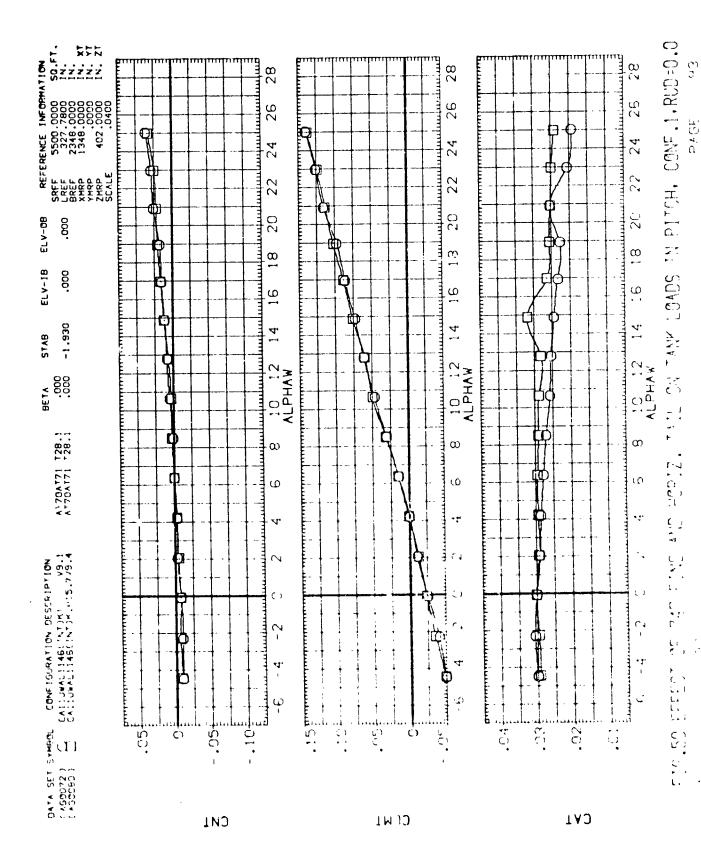


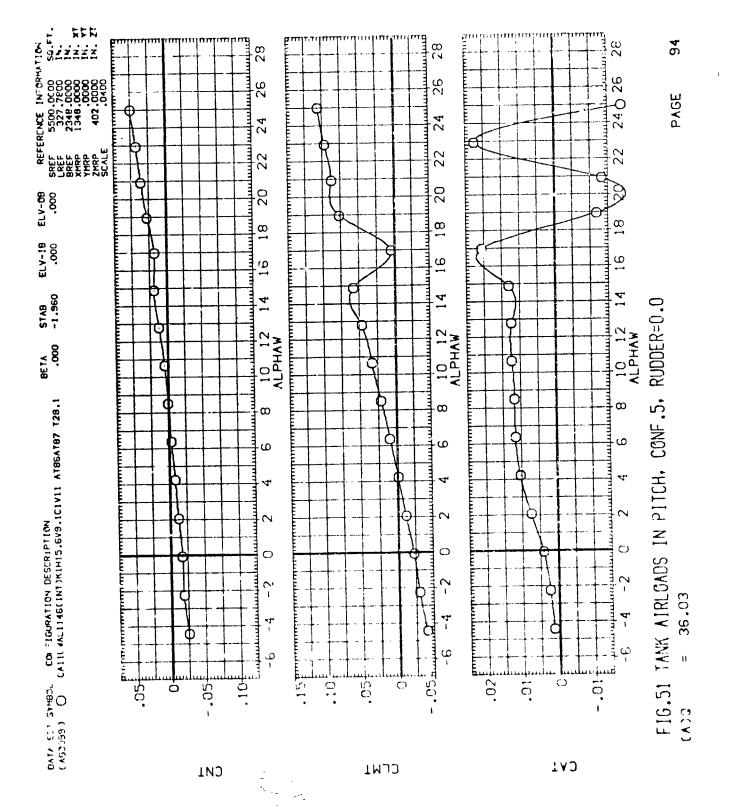
CA

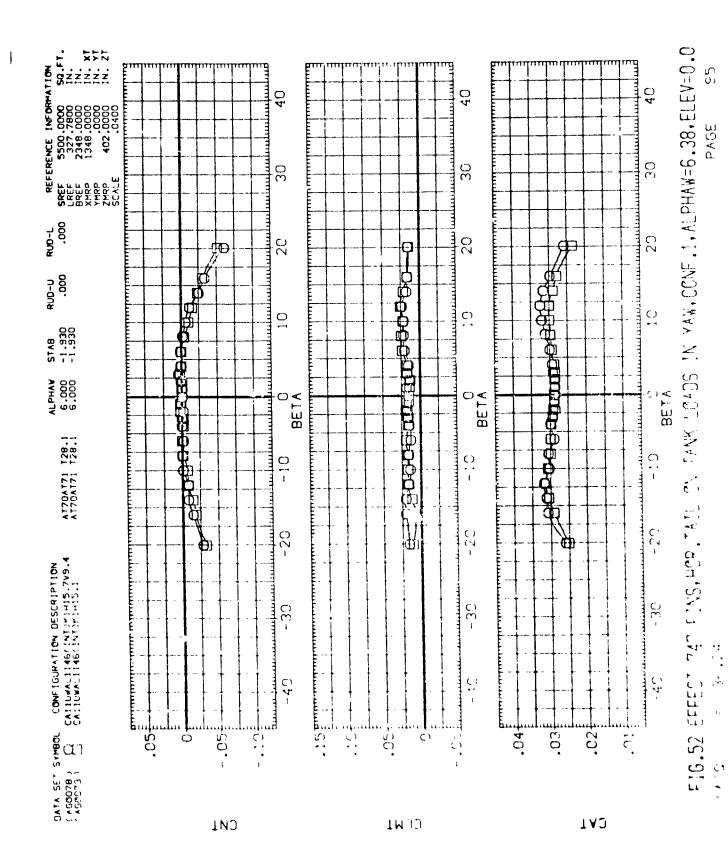
CZF

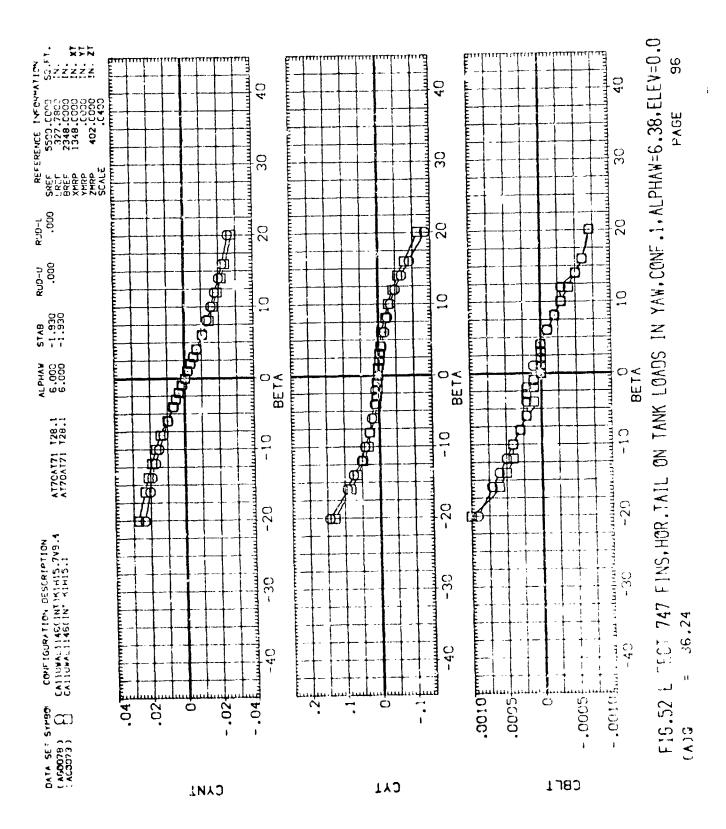


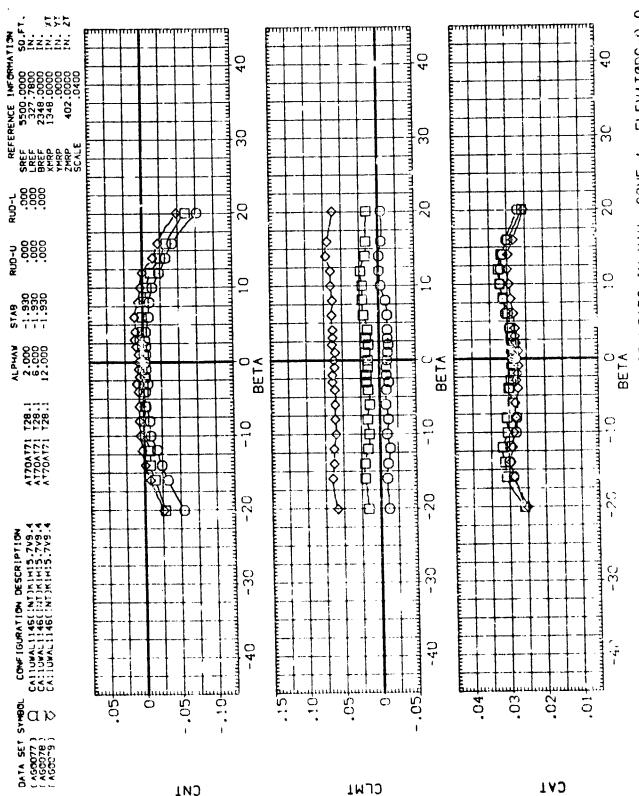
YAWING MOMENT COEFTICIENT, CLN, (STABILITY AXIS)





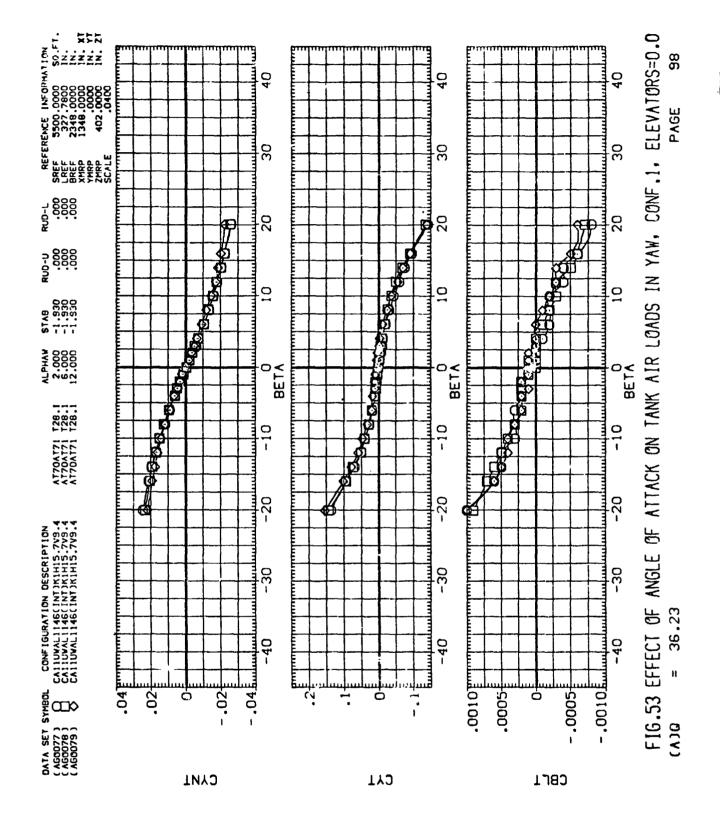






CNI

ATTACK ON TANK AIR LOADS IN YAW, CONF.1. ELEVATORS=0.0 . D ANS: E FIG.53 EFFECT OF 25.23



C-3

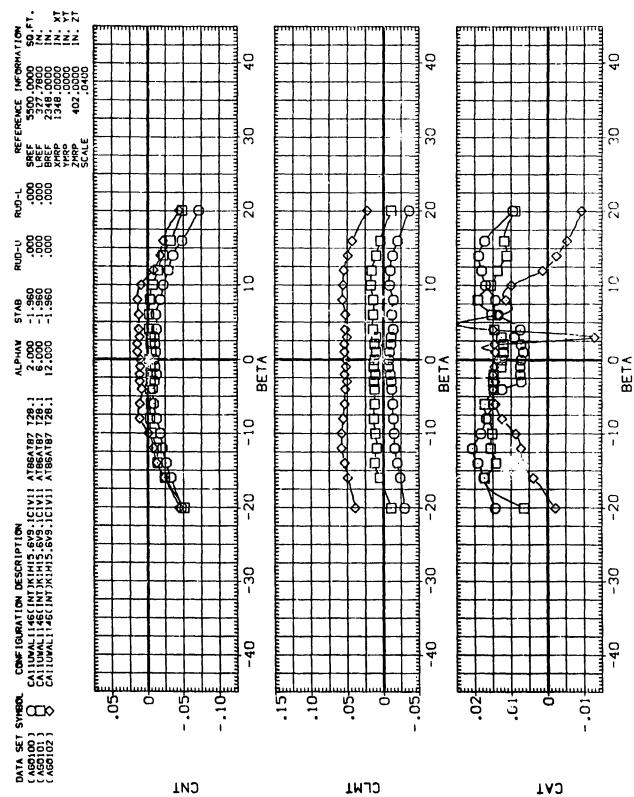


FIG.54 EFFECT OF ANGLE OF ATTACK ON TANK AIR LOADS IN YAW. CONF.5. ELEVATORS=0.0 (A)0 = 36.30

< ,1

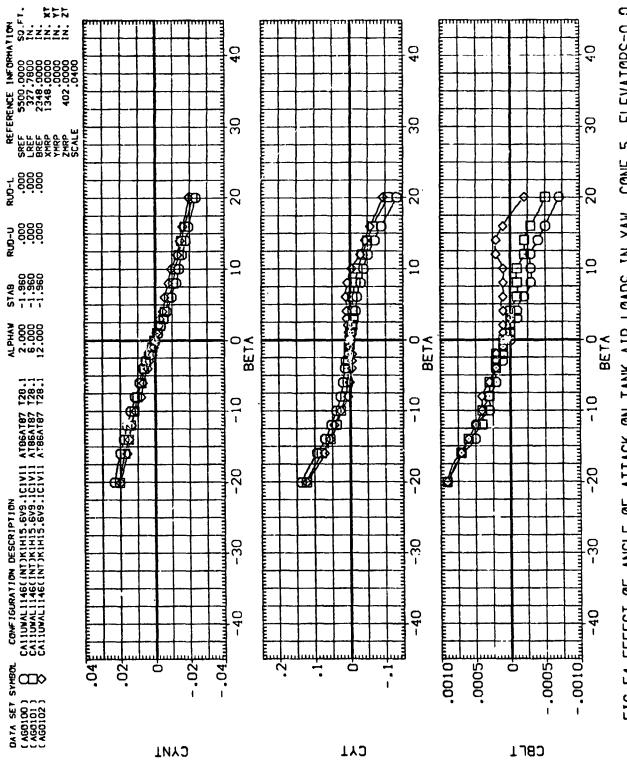


FIG.54 EFFECT OF ANGLE OF ATTACK ON TANK AIR LOADS IN YAW, CONF.5, ELEVATORS=0.0

APPENDIX TABULATED SOURCE DATA

Tabulations of plotted data are available on request from Data Management Services.

PRECEDING PAGE BLANK NOT FILMED

DATE 15 NOV 75	NOV 75	TABULATED		SOURCE FORCE DATA - CAII (UMALII46	AII C UMAL	146)				PAGE	-
			CA11UMAL	CA11UMAL1146(EXT1KI	1.67				(RG0001)	14 NOV 75	15)
	REFERENCE DATA	ATA						PAR	PARAMETRIC DATA		
SPEF LREF BREF SCALE	5500.0000 SQ.FT. 327.7800 IN. 2348.0000 IN.	XMRP = ZMRP =	1339.9100 .0000 190.7500	ZC XC XC XC XC XC XC XC XC XC XC XC XC XC			<u>8</u> 5	BETA RUD-L	. 000 RUD-U	•	000.
		RUN NO.	17 0 RN	RN/L = .00	GRADIENT	INTERVAL	-5.00/	5.00			
	o ļ	ALPHAM	BETA	ل	8	F J	Ն	CLN	SST		
	35.500	-4.350	00000	35160 17570	. 06770	06670	0.00340	00540	00110		
	35.483	.030	00000	00350	03740	04160	.00120	01100.	.00180		
	35.480	2.150	. 00000	. 15850	.03550	02980	08000.	.00120	.00120		
	35.480	4.270	. 00000	. 31690	01620.	01200	.00080	.00150	. 00130		
્ ે	35.480	6.420	.00000	.48190	.04670	. 00260	. 00200	01100	04100.		
ir ř	35.480	8.600	.00000	.63570	0.05840	. 02030	.00270	. 00070	.00020		
F	35.500	10.770	00000	.77300	. 08320	05310	.00370	.00060	.00050		
· ·	35.560	12.830	00000	. 90590	. 12920	.07800	01+00.	.00080	. 00050		
). ()(35.650	15.010	.00000	1.02040	0.4261.	. 09650	.00160	.00120	. 00020		
, L	35.760	17.090	00000.	1.11630	. 26790	.11710	.00140	.00170	01000		
•	35.870	19.120	00000.	1.15840	.33450	. 12590	.00020	.00160	00110		
	35.970	21 . 120	00000.	1.13910	. 38900	. 14600	06100.	04100.	.00030		
p,	36.060	23.070	00000.	1.13770	44050	.15070	0+100	0.00070	.00100		
1(36.140	25.010	00000	1.13000	0.4884.	.15830	08+00.	00010	.00150		
GŁ		GRADIENT	00000	44770.	00319	.00485	74000.	00011	00000		

CF POOR QUALITY

The second secon

N	(21		000																	
PAGE	(RG0002) (14 NOV 75	PARAMETRIC DATA	.000 STAB # .000 ELV-OB # .000 RUD-L #		CSL	.00180	. 00200	.00110	. 00180	.00130	.00083	.00100	. 00020	.00060	0,000.	00220	.00010	.00170	. 00130	. 00006
		PARA	BETA ELV-18 RUD-U	5.00	CLN	00100.	07.100.	.00160	.00170	. 00130	.00070	. 00050	.00070	0.000.	. 00160	04100.	.00130	01000.	00000	00008
			19 19 19 19 19 19 19 19 19 19 19 19 19 1	-5.00/	ر در	00070	.00030	.00160	. 00130	00140	.00350	.00450	.00470	.00480	.00320	.00450	. 00190	.00350	04400.	.00047
1.56)				INTERVAL	CLM	06860.	0440.	00020	04330	09550	14520	16360	17540	19480	21940	25380	29690	42340	55730	02365
AII C UMALI	115.119.1			GRADIENT	8	02670.	.03870	.03640	060+0.	. 05030	.06470	. 09150	0+0+1	.20710	. 28810	.36160	.42280	.49220	. 55660	-, 00344
ATED SOURCE FORCE DATA - CAII (UWALII'SE	CALLUWALLILYBIEXTIKIHIS.1V9.1		N. 140	الا • .00	ب ا	22940	03790	14840	. 32320	0666ት.	.67540	.82750	. 97360	1.09990	1.21600	1.26340	1.26020	1.29950	1.32550	. 08657
D SOURCE FOR	CA11UMAL		1339.9100 .0000 190.7500	2/ 0 RN/L		00000														
TABULATE		ATA	XMRP = ZMRP =	FUN NO.	ALPHAM	-2.260	070	2.080	4.230	6.380	8.530	10.660	12.790	14, 900	16.970	18.960	20.910	22.940	24.970	GRADIENT
DATE 15 NOV 75		REFERENCE DATA	SREF = 5500.0000 SQ.FT. LREF = 327.7800 IN. BREF = 2348.0000 IN. SCALE = .0400		Q 15	35.500	35.490	35.490	35.490	35.430	35.490	35.510	35.570	35.660	35.780	35.900	36.010	36.120	36.230	

_	
3	
ŭ	
<	
DATA	
0	
ہبر	
FORCE	
5	
ប្ច	
5	
SOURCE	
0	
TABULATED	
٦	
5	
₽	
-	
10	
E	
S NOV	
S.	

UHAL 1146)

PASE

		CA11UMA	CA11UMAL1146(EXT)K1H15.1V9.	15.179.1				(RG0003)	11 VON 75	, ž
REFERENCE DATA	ATA						PAR	PARAMETRIC	DATA	
5500.0000 SQ.FT. 327.7800 IN. 2348.000′ IN.	XMRP * YMRP * ZMRP	1339.9100 .0000 190.7500	ZZ. ZCCC			뿄弫몺	ECTA - ECTV-18 - RUO-U -	0000	STAB ELV-08 RUD-L	-2.000 .000 .000
	RUN NO.	3/ 0 RI	RN/L 00	GRADIENT	INTERVAL .	-5.00/	5.00			
ø	ALPHAM	BETA	Ç	8	CLH	Շ	Z U	CSL		
35.530	0 7 7 . 7 -	.00000	44370	.07280	.24900	00310	. 00250	000.	179	
35.500	-2.260	. 00000	25130	. 05000	. 18800	00300	0.00540	.00	00	
35.490	070	00000	05790	.03890	. 12820	.00010	04100.	. 001	50	
35.490	≥.080	. 00000	12740	.03630	08080	04000.	04100.	100.	00	
35.490	4.230	.00000	29830	.03980	.04330	. 00100	. 00180	100.	70	
35.490	6.380	00000.	C+9C+.	00840.	00:50	.00230	.00130	.001	20	
35.490	9.530	00000	.65350	. 06130	04550	00180	. 00150	.00	0.	
35.510	10.650	.00000	. 80350	.08730	36510	.00360	.00070	900.	170	
35.570	12.790	00000	. 9+390	. 13440	08010	. 0060	.00030	000	36	
35.660	006.41	00000	1.07410	. 20020	10130	00470	.00080	000.	010	
35.770	16.970	00000	1.19060	.25140	12110	.00370	. 00150	000	010	
35.890	18.960	00000.	1.24010	. 35410	15460	.00390	. 00120	-,003	200	
36 000	20.910	00000.	1.24100	.41510	20300	00410	01100	. 000	010	
36.110	22.940	00000	1.27550	0,48070	33820	.00370	C+000.	100.	9	
36.220	24.970	00000	1.305+0	.54570	47360	.00660	00050	.00180	80	
	GRADIENT	. 00000	. 08592	00369	02393	+5000°.	00011	000.	600	

DATE 15

SPEF LREF BREF SCALE

The second secon

(14 NOV 75)

(RG0004)

CALIUMAL 1146 (EXT) KIH15. 1V9. 1

	-2.070 .030 .000																									
C DATA	STAB ELV-08 RUD-L		_	.04680	3710	3260	2620	2190	1690	1130	0310	0890	0370	0120	0600	0360	06+0	0940	1390	1990	25	30+0	3+90	3900	1180	0258
PARAMETRIC	2.080 .000 .000		S	ö			Ö	٥.	0.	•		•	0.	٥.	9.	·.		٠.		٠.	0.	0.	0.	٠.	0.	0.
PAF	ALPHAM ELV-1B RUG-U	5.00	מרצ	0.0000	03780	03190	02550	01930	01360	0×800°	00620	00350	00080	04100.	.00480	.00710	00600	.01160	.01670	. 02260	. 92950	.03560	.04130	.04520	.05050	¥8200 ·
	A TE	-5.00/	ځ	34390	0000	.20580	. 16900	. 13210	01660.	. 06550	.05130	.03340	.01700	.00160	01730	03260	04880	06540	09920	13400	17050	20710	24320	27520	33630	01650
		INTERVAL .	CLM	07780	0.850	09000	.02110	.03690	.05630	. 06970	.07570	.07820	06080	. 08090	.07930	.07570	.07380	.06780	.05+30	.03660	.01390	006:0	02460	04150	07900	00033
		GRADIENT	8	.01320	01610	.02210	.02550	.02880	.03180	.03400	.03520	.03570	. 03600	.03610	.03610	.03590	. 03530	. 03490	. 03250	. 02940	. 02500	.02150	01 8 40	.01480	08010	.0000
	IN. XC IN. YC IV. ZC	رد • ،00	ಕ	.20870	. 17613	. 16430	. 15160	.14750	. 13540	. 12970	. 12770	. 12690	. 12240	. 12580	. 12530	. 12520	. 12830	. 13270	.13570	. 14600	. 15440	. 16570	. 17600	. 18800	. 20650	.0002
	1339.9100 .0000 190.7500	4/ 0 RN/L	ALPHAH	2.08000 00000	2.08000	2.08000	2.08000	2.08000	2.08000	2.08000	S. 08000	2.08000	2.08000	≥.08000	€.08000	2.08000	2.08000	≥.08000	2.08000	2 .08000	2.08 600	2.08000	2.08000	2.08000	2.0800c	00000
)ATA	XMRP ZMRP	REN NO.	BETA	-20.000	-14.000	-12.000	-10.000	-9.000	-6.000	-¥.	-3.000	-2.000	-1.000	020	- 000	ام د. 000	3.000	. 000 *	6 .000	8.000	10.000	12.000	14.000	16.000	20.000	CHADIENT
REFERENCE DATA	5500.0000 SQ.FT. 327.7800 IN. 2348.0000 IN. .0400		O	35.640	35.550	35.530	35.510	35.500	35.490	35.490	35.490	35.490	35.490	35.490	35.490	35.490	35.490	35.490	35.490	35.500	35.510	35.530	35.550	35.570	35.630	
	SREF LREF BREF SCALE																									

CALIUMALIIMS(EXT)KIHIS.IV9.1

(RG0005) (14 NOV 75)

SREF LREF BREF SCALE

	rs)	.05200	00640	.04370	.03850	.03260	. 02590	01980	.01360	.01050	. 00720	00+00	05100.	00190	40520	00850	01110	01790	- 05460	03070	03660	04190	04650	- 05310	- 00311
3 .00	C _N	04980	- 04340	03820	03160	02450	01850	01240	00750	00540	00360	00 1 20	.00120	. 00390	.00660	00800	.01050	.01520	. 02170	. 02750	. 03430	01050	ロオのオロ・	.05160	.00227
-3.00/	Շ	34270	.27570	23970	. 20220	. 16210	12750	. 09360	. 06270	04840	.03210	.01759	.00070	01460	03040	04500	06120	09270	12810	16310	20000	23740	27230	- 33710	01555
INTERVAL	r J	- 19920	- 14240	11640	08920	06550	04410	02350	01040	00520	00340	00050	00110	00150	00330	00710	01310	02750	05150	07330	09720	12220	14390	19910	0002S
GRADIENT	8	.03080	.03040	.03300	.03600	.03860	.04210	02440.	. 04620	.04680	04740.	.04750	.04800	.04800	.04790	04740.	.04680	. 04450	. 04250	.03910	.03620	. 03260	.03010	. 02840	60000
۲۰۰۰ وا	<u>ე</u>	.53830	. 52640	.51810	.50860	01851	01464.	00%64.	.48100	.480≥0	.47820	.47680	.47830	.47530	0.48070	.47830	.48050	.48570	.49210	.50450	. 50890	.51780	.52120	.53750	00007
17 O 18	ALPHAW	6.38000	6.38000	6.38000	6.38000	6.38000	6.38000	6.38000	6.38000	6 .38000	6.39000	6.3900u	6 .38000	6.38000	6 38000	6 38000	6.38000	6.36000	6.38000	6.38000	6.38000	6.38000	6 .38000	6 .38000	.00000
PUN NO.	BETA	-20.000	-16.030	- 14 . 000	-12.000	-10.000	-8.000	-6.000	-4 . 000	-3.000	-2.000	-1.000	000	1.000	€.000	3.000	£.000	6.000	9 .00r	10.000	12.000	14.000	15.000	20.000	GRADIENT
	o	35.640	35.570	•,	•:	•:	•.	-	•	_	٠.	-	٠.	٠.	٠.	-	٠.	٠.	•:	•:	•	•	•	~	

ω

PAGE

UMAL 1
- CA11 C
DATA
FORCE
SOURCE
MALATED

14 NOV 75 1		. 000 . 000 . 000																									
_	C DATA	STAB ELV-08 BUD-L		ر.	. 04.950	4220 4780	.03260	2700	2150	.01670	2 00 1	.00850	.00580	0250	0030	0550	0550	0770	040	1670	2250	2830	3350	03940	04400	04B60	0270
(RG000E)	PARAMETRIC DATA	12.790 .000 .000																									
	_	ALPHAM = ELV-18 = RUO-U =	5.00	N U	06640	04330	031	02520	01920	01180	00850	006	1.004	100	000	.003	.600.	.007	ф Ф	.013	.020	. 926	. 032	.039	04250	.053	. 90€
		₹ ದ €	-5.00/	Շ	. 35920	. 28280 . 28280 . 28280	.20310	. 16590	.13110	04560.	. 06550	. 05050	.03480	. 02020	.00470	01090	02670	04180	05500	08380	12180	15700	-, 19380	23120	27190	- 3444O	01522
			INTERVAL .	מרא	- 3.7840	26990	17860	15090	13350	11690	09930	09170	08350	07990	07870	08180	08430	09120	10010	12150	13710	15900	18670	22700	27100	36670	00011
115.179.1			GRADIENT	8	. 12700	12560	12610	12840	. 12970	.13210	. 13390	. 13430	. 13450	. 13410	. 13440	. 13450	. 13380	.13360	. 13250	. 13070	. 12870	0,521.	. 12310	. 12170	. 12130	. 12290	+1000·-
CALIUMALII46(EXT)KIHI5.1V9.		7 2.4.X 2.4.X	FN/1. = .00	ರ	.95230	.95170 05020	94-260	94850	.94600	02646	.95270	.94850	0+6+6	. 94 360	.94830	. \$5150	95100	95060	.g.730	. 95053	.95+90	.95280	.95120	.95690	.96300	.95810	60007
CALIUMAL		1339.9100 .0000 190.7500	6/ 0 RN	ALPHAH	12.78000	12.78000	12.79000	12.79000	12.79000	12.79000	12.79000	12.79000	12.79000	12.79000	12.79000	12.79000	12.79000	12.79000	12.79000	12.79000	12.79000	12.79000	12.79000	12.79000	12.78000	12.78000	00000
	ATA	A CHARA	RUN NO.	BETA	-20.000	-16.000	-12.000	-10.000	-8.000	-6.000	-4.000 -4	-3.000	-≥.000	-1.000	000	1.000	≥.000	3.000	000. *	6.000	B .000	10.000	12.000	14.000	16.000	20.030	GRADIENT
	REFERENCE DATA	5500.0000 SO.FT. 327.7800 IN. 2348.0000 IN.		ø	35.759	8.88 8.98	35.620	35.600	35.590	35.580	35.570	35.570	35.570	35.570	35.570	35.560	35.560	35.570	35.570	35.570	35.580	35.590	35.610	35.630	35.660	35.7E	
		SAEF BREF SCALE																									

REFERENCE DATA

CA: 10HAL 1146 (EXT) K1H15. 1V9. 1

(RG0007) (14 NOV 75)

PARAMETRIC DATA

PAGE

-2.070 .000 .000			
STAB ELV-OB BUD-L		CSL 055170 055170 055170 065170 065750 065750 065750 06576 0	
6.380 .000 25.000		00000000000000000000000000000000000000	
ALPHAN E.v-18 RUO-U	0/ 5.00		
	5.00/	74 37830	
	I INTERVAL	CCR 18370 1.02530 1.02530 1.02530 1.02530 1.02530 1.02530 1.02530 1.02530 1.02530 1.02530 1.02530 1.02530 1.02530 1.02530 1.02530	1
	GRADIENT	00.00000000000000000000000000000000000	
N. YC N. YC CCC	u = .30	0.00 0.00	,))
1 339.9100 1 1 0000 1 1 0057.061	7/ 0 AN/L	AL WEST OF THE PROPERTY OF THE)
XYRRP	SCN NO	### 1	
EF = 3500.0000 SQ.FT. EF = 327.7800 IN. EF = 2348.00C. IN.		- NAWAWAWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW	
SCAL SCAL SCAL			

1

SONE SCALE

CATIUMALITYGEXTIKIHI5.1V9.1	MTA PARAMETRI, "ATA	XMRP = 1339-9100 IN. XC	RUN NO. 8/ 0 RN/L ORADIENT INTERVAL5.00/ 5.00	ALPHAN CL CD CLM CY	02670.1 06786. 06801.1 08580.	6.38000 .* 1270 .0429008760 .3092007510	6.38000690 .0446007150690	6.38000 . 49990 . 0470005210 . 2400006620	6.580.7	0.091. 0.500 05450. 05484. 0008E.9	6.38000 - 48120 .05500520 .1273004890	6.36000 - 48370 - 05540 .00310 .11450 - 04840		6.38000 -47840 05860 01150 08860 -04860	0.580	0.000 0.200. 0.010. 0.00. 0	0.5.400.	6.380.0 05.30. 0	0.380.0 - 0.520 - 0.520 - 0.09164 - 0.09164	6.38000 .49770 .04970039300823301663	6.3800503.0045.00540503.0	6.38000 - 01140. 04130 0083.8	000 5.38050 .52180 .036401192525290 .00760	000 6.38000 .53780 03250 -,18470 -,23250	
CAI	1TA		8	u	96	6	6	ej a	o a	ø	ø	9	9	۰	י פ		Ó	ω.	9	9	Ġ	Ġ	000 S.	000	
	REFERENCE DATA	9500.6000 50.FT. 327.7800 IN. 23.48.6000 IN.		0 kg	35.630	35.600	570	26. H		35.510	35.500	35.500	905.35		500.00 100.00	30.00 30.00	1000	35.500	35.500	55.50 50	35.520	35.530	35.550	35.610	

		CATIONALITYBIEXTIKINIS. 2V9	EXTIKINIS	1.2V9.1	
REFERENCE DATA	ATA				
3500.0000 SQ.FT. 327.7800 IN. 2349.0000 IN.		1339.91G0 IN. X .0000 IN. Y 190.7500 IN. Z	855 8		
	Rue no.	9/ 0 RK/L .	8.	GRADIENT	INTERVAL .
0	BETA	ALPHAH CL		8	בו
٠.		6.38000	52550	.03920	16340
35.600	ρ.	. 38000	51920	.03610	12500
٠.		. 38000	1540	04920.	10810
٠,	-12.000	. 39000	0550	.03910	- 08290
٠.	-10 000	. 38000	49930	01.170.	06520
٠.		. 38000	07267	.04470	04330
	-6 .000	. 39000	09867	.04720	02670
	•	38000	8290	.04930	01480
	٠	38000	8220	.05060	00930
35.490	-2.000	. 38000	47630	.05120	00540
	•	. 38000	47780	. 0521.9	00100
	000	. 38000	47610	. 05210	. 00190
	1.000	. 38000	47920	.05240	.00510
	S . 000	. 38000	48000	.05190	06+00
	•	. 38000	47700		.00180
	€.000	. 38000	01081	.05100	00150
	•	. 38000	48570	00640	01660
-	8.000	. 38000	78890	.04660	03610
	•	. 38000	50170	. 04320	- 06030
⁻.	•	. 38000	50390	. 038gn	08560
	14.000	. 39000	5,590	.03585	- 10800
35.560	٠	•	52450	. 03250	_
35.620	8	. 39000	3090	8	- 1966D
	GRADIENT	0 00000 ·	0029	.00018	.00188

ORIGINAL PAGE IS OF POOR QUALITY

ħ CARE 15 NOV

SA CAN

TABULATED SOURCE FORCE DATA - CALL 1 UNAL 1196)

-2.070 .000 25.000

...

STAB ELV-OB RUD-L

6.380 .200 .000

ALPHAN ELV-18 RCO-U

5.06

-5.00/

14 NUN 11 PAGE.

(P0000H)

PARAMETRIC DATA

018890 018840 01

24090 24140

_
UMAL 1146
_
CAL
ı
DATA
FORCE
SOURCE
TABULATED

CA11UHAL1146(EXT)K1H15.6V9.1

(RG0010) (14 NOV 75)

REFERENCE DATA	DATA						PAR	PARAMETRIC	DATA	
SREF = 5500.0000 SQ.FT. LREF = 327.7800 IN. BREF = 2348.0000 IN. SCALE = .0400	ZMRP = ZMRP	1339.9100 .0000 190.7500	IN. XC IN. 4CC IN. 4CC			8	3ETA CLV-18 RD-U	0000	STA2 ELV-08 ERUC-L	-1.920 .000 .000
	RUN NO.	10/ 0 RN	RN/L = .00	GRAUIENT	INTERVAL =	-5.00/	5.00			
٥	ALPHAH	_	ಕ	8	CLM	Շ	CLN	25.7		
35.530	0 * * . * -	00000	45760	07440	.28350	.00080	00,00	. 00130	30	
35.500	-2.260		26120	.05030	.21510	00000	01100	.002	000	
35.490	070		06390	00040.	15040	.00170	00000	.00	50	
35.490	2.080		. 12010	.03720	.09560	.00380	000010	. 002	30	
35.490	4.230		0.865.	04110	.05170	. 00430	04000.	00	06	
35.490	6.380		.48230	04960	00180	.00530	-,00010	100	20	
35.490	8.530		. 65290	.06270	04970	.00560	00060	000	06	
35.510	10.660		.80820	. 08890	08160	.00800	00080	.00	40	
35.570	12.790		. 95600	. 13580	09710	07700.	00110	000	90	
35.650	14.900		1.07700	. 20070	11310	.00730	00070	000.	50	
35.770	16.970		1.19570	. 28300	12600	.00640	00010	000	20	
35.880	18.960		1.24370	.35300	14780	.00370	.00020	1. C.R	06	
35.990	20.910		1.23520	.41210	18490	01 400.	.00000	000	30	
36.100	22.940		1.27470	0.47970	30650	00840	00030	000	06	
36.220	24.970		1.30800	. 54550	44550	.00690	00210	.00	80	
	GRADIENT		.08734	00371	02690	94000	00010	000	90	

_ G
15,60
TINING BYS.
XJJYn
CA: 12, 12.42 1 1
140

	-1.920 -23.000 .000																		
1C DA A	STAB ELV-08 BRUD-L B		75	. 00120	00100	00130	00150	00160	00180	08000	00000	00030	00030	01000	00280	00050	00130	00150	00003
PARAMETRIC		0		. 08000.											•	•			
	6ETA ELV-18 RU,-U	-5.00/ 5.00									•	•					•		60000.
		INTERVAL .	נר	.77530	.71330	.65900	.61770	.61610	.54600	.49730	.47170	.48290	. 45290	.42560	. 36930	. 30470	. 19160	. 06150	01865
,		GRADIENT	8	06460.	.06750	.05300	. 04680	.04720	.05240	. 05220	00+80	. 12570	. 18470	.25760	. 32940	.38310	05544.	50450	00536
	IN. XC IN. XC IN. XC	ル・・・00	ಕ	58140	38840	19780	01+90	14510	.33480	.51270	.66760	.80510	.93360	1.04480	1.1:860	1.11070	1.14700	1.17480	. 08426
	1339,9100 .0000 190.7500	11/ 0 RN/L	BETA	00000	. 00000	. 00000	00000	. 00000	.00000	00000	00000	.00000	00000	00000	00000	00000	00000	00000	00000
DATA	XMRP = ZMRP =	RUN NO.	AL PHAW	011.1	-2.260	070	2.080	4.230	6.380	8.530	10.660	12.790	14.900	16.970	18.960	20.920	22.940	24.970	GRADIENT
REFERENCE DATA	5500.0000 SQ.FT. 327.7800 IN. 2348.0000 IN.		G	35.550	35.520	35.510	35.510	35.510	35.510	35.510	35.520	35.570	35.650	35.760	35.870	35.960	36.070	36.170	
	SREF LREF BREF SCALE																		

PAGE 11

(RG0011) (14 NOV 75)

The state of the s

CA11UHAL.1146(EXT)KIHI5.1V9.1

(RG0012) (14 NOV 75)

PAGE 12

	-1.900																	
C DATA	STAB ELV-08 B RUD-L		ږ	.00150	0210	0150	10150	0110	0010	0900	0900	0050	10030	0110	0000	0000	0110	2000
PARAMETR1C	.000 -23.000 .000					_	_	_	_		_	_		•		_	_	
_	1ETA	5.00	S	. 00050	000.	- 000	000.	000.	000.	000	000	000	- 000	000	- 000	000	001	000
	찚띡됷	-5.00/	Շ	.00150	.00140	.00360	.00190	.00260	. 00280	.00530	04500.	.00630	08400.	.00430	.00630	. 00550	.00850	.00013
		INTERVAL =	SL _A	.73510	.69150	.62800	.58730	.57950	.51100	.45730	.46450	.44310	.41560	35210	. 29780	. 16300	. 02780	01918
		GRADIENT	8	. 09290	.06790	. 05290	.04670	.04770	. 05240	04480.	. 12540	. 18480	.25790	.33150	. 38650	.44880	. 50800	00516
	IN. XC IN. XC	ル・・00	ರ	57030	38750	19050	00730	.16170	.34720	01089	.80830	.93870	1.046/0	1.11850	1.11310	1.15100	1.17830	.08507
	1339.9100 .0000 190.7500	12/ 0 RN/L	BETA	00000.	00000	.00000	00000	00000	00000.	.00000	00000	00000	00000.	.00000	00000	00000	00000	00000
ATA	XMRP = ZMRP = ZMRP	RUN NO.	ALPHAH	011.1-	-2.260	070	2.080	4.230	6.380	10.660	12.790	14.900	16.970	18.960	20.920	22.940	24.970	GRADIENT
REFERENCE DATA	5500.0000 SQ.FT. 327.7800 IN. 2348.0000 IN.		a	35.550	35.520	35.510	35.510	35.510	35.510	35.520	35.570	35.650	35.750	35.870	35.970	36.070	36.180	
	SREF LREF BREF SCALE																	

K
Ş
5
DATE

9	
•	
~	
-	
ļ	
Ĉ	
5	
_	- (
-	
-	
=	ı
١.	:
•	:
1	•
3	- 7
5	ı
-	- :
ξ.	- (
	•
3	:
ć	
5	
L	•
í	•
-	
5	
5	(
ì	
,	
4	
_	

	TABULATED		SOURCE FORCE DATA - CALL (UMALILYS	AII C UMALI	146)				PAGE 13
		CA11UMAE	CAI IUMAL I I 46 (EXT) KIHI 5. 1 V9. I	15.179.1				(RG0013) (1	14 NOV 75)
REFERENCE DATA	ATA						PAR	PARAMETRIC DATA	
0000 SQ.FT. 7800 IN. 0000 IN. 0400	XMRP ZMRP	1339.9100 .0000 190.7500	IN. XC IN. YC			8 25	BETA EL.V18 I	.000 STAB 17.000 ELV-08 .000 RUD-L	17.000
	RUN NO.	13/ 0 Rh	RN/L = .00	GRADIENT	INTERVAL -	-5.00/	5.00		
o	ALPHAM	_	ರ	8	CL _H	ວ	Z U	ij	
35.530	054.5-	00000	33910	.07200	- 15410	.00340	00040	.00210	
35.510	-2.260		14450	. 05170	22050	.00550	00070	. 00260	
35.490	070		0+7+0.	. 0432r	27540	.00850	00120	. 00190	
35.490	2.080		.23490	.04370	32640	.00800	00150	. 00230	
35.490	4.230		0404	. 05050	37650	.00860	00150	. 00190	
35.490	6.380		. 58580	.06180	42840	.00950	00150	. 00180	
35.500	8.530		. 76600	.07860	47390	00010.	00140	.00150	
35.530	10.660		.91960	. 10790	47970	.01080	00170	01100.	
35.590	12.790		1.05450	. 15890	9164	.01020	00190	00000	
35.680	14.900		1.17810	. 22530	48710	01600.	00160	01000.	
35.800	16.970		1.28700	.31010	49020	. 00800	00120	00020	
35.920	18.960		1.33900	.38360	50760	00600.	03:050	00270	
36.040	20.910		1.32930	.44750	55080	.00710	00120	0.00070	
36.150	22.940		1.36100	.51420	68270	00840	00170	. 00080	
36.270	24.970		1.39920	.58670	80010	. 01200	- 09250	.00150	
	GRADIENT		.08637	00239	02541	. 00060	+1000	00003	

ORIGINAL PAGE IS OF POOR QUALITY

•	
•	
	- 2
	i
•	
	- 1
•	
•	- 1
	- 1
	- 1
	- 1
	- 1
	- 1
•	•
•	
,	•

	REFERENCE DATA	ATA						PAR	PARAMETRIC DATA	
SREF LREF BREF SCALE	5500.0000 SQ.FT. 327.7800 IN. 2348.0000 IN.	XMRP = YMRP = ZMRP	1339.9100 .0000 190.7500	IN. XC			A Line	3ETA	.000 STAB # 17.000 ELV-OB # .000 RUD-L #	-1.920 17.000 .000
		RUN NO.	14/ 0 R	RN/L = .00	GRADIENI	I INTERVAL .	-5.00/	5.00		
	0	ALPHAH	BETA	ಕ	8	F.	Շ	r U	150	
	35.530	ロオナ・オー	00000	- 34160	.07310	14510	.00340	000030	. 00210	
	35.510	-2.260	00000	14640	.05310	22080	.00330	00000	.00180	
	35.500	070	•	05+40.	06440.	28120	.00620	00060	.00200	
	35.500	2.080	•	. 23360	.04500	33960	.00740	00060	.00170	
	35.500	4.230	·	.41350	.05190	39930	.00720	00080	06100.	
	35.500	6.380	•	. 59220	. 06320	01155.1	04600.	00150	00170	
	35.500	8.530	•	. 76880	.08000	48060	.00810	00080	.00180	
	35.530	10.660	•	.91850	. 10930	49160	.00880	00100	06000.	
	35.590	12.790	•	1.05860	. 15970	49210	.00930	00170	.00030	
	35.680	14.900	•	1.18590	. 22890	50200	.00920	00090	.00020	
	35.800	16.970	·	1.28740	30870	49100	.00770	00070	00000.	
	35.920	18.960	•	1.33000	38400	49590	.00760	00010	0+100	
	36.030	20.910	·	1.32460	04944	53980	.00850	.00000	00070	
	36.150	22.940	·	1.35740	.51540	64490	.00710	01100	04100.	
	36.260	970	Ī	1.37730	.58000	75410	.00850	00190	.00160	
		GRADIENT	·	.08719	00234	02893	.00054	00013	00002	

(RG00:4) (14 NOV 75)

. Ъ

	. 27 VOI		000.																		
	(RG0015) (14 NOV	PARAMETRIC DATA	.000 STAB		CSL	.00230	06100	06100.	. 00170	06100.	. 00150	00100	.00120	.00020	. 00030	00010	00240	0,000	06000.	04100.	00005
	•	PARAF	ELV-18	5.00	CLN	00020	00010	- 00000	00040	00120	00090	00140	00110	00180	00150	00110	- 00100	00120	00150	00250	00011
			BET ELV RUO	-5.00/	Շ	.00310	.00250	06+00	06+00.	.00650	0.00640	01800.	. 00790	. 00950	.00830	. 00720	.00810	0.00640	.00770	.01000	. 0004 2
				INTERVAL .	SCH T	. 25230	. 18610	. 12910	. 08240	.04310	00380	0+6+0 -	06810	08480	10580	12510	16320	21030	34080	48480	02409
	15.179.1			GRADIENT	8	.07350	04970	03300	.03610	.03970	01840.	.06240	.08770	. 13730	. 20170	. 28070	. 35470	.41540	.48430	. 55050	00375
	CALIUMALII46(EXT)KIHI5.IV9.			د • .00	ช	45130	24840	06300	. 12320	. 23330	.48190	.66250	. 80600	. 95980	1.08630	1.18780	1.24930	1.24490	1.28.90	1.31750	.08584
ממוכר י מוכר מוי	CAT I UMAL I		1 339.9100 1 .0000 1 1 90.7500 1	15/ 0 FN/L	BETA	00000	00000.	00000	00000	. 00000	00000	00000	00000	00000.	00000	00000	00000	.00000	00000	00000	00000.
		ATA	XMRP = ZMRP =	PCN NO.	ALPHAW	011.1-	-2.250	070	2.080	€.230	6.380	8.530	10.660	12.790	14.900	16,970	18.960	20.910	22.940	24.970	GRADIENT
2		REFERENCE DATA	5500.0000 SQ.FT. 327.7800 IN. 2348.0000 IN.		σ	35.530	35.500	35.490	35.490	35.490	35.490	35.490	35.510	35.570	35.660	35.770	35.890	36.000	36.110	36.220	
			SREF BREF SCALE																		

WANTED TO THE TANK THE PROPERTY OF THE PROPERT

•	
!	
1	
•	
	_
	ın
	-
i	I
	-
	×
	2
	⊽
	n
i	Ξ
	ဖ
;	*
•	-
	=
'	7
	ŧ
1	5
,	
	CAI IUWAL I 146 (EXT) KIHI5. 1
1	⋖ .
•	ပ

(R60016) (14 NOV 75)

16

PAGE

	-1.870 .000																								
PARAMETRIC DATA	2.080 STAB		CSL . 03210	. 02820	ביים סגילים סגילים	01940	01540	.01280	06800.	06900.	. 00530	. 00330	. 00150	00040	00210	00450	00520	00950	01330	01730	01960	02240	025+0	02960	00181
PAR	ELV-18 =	5.00	CLN .02590	.01920	מכפום.	.01200	06600.	.00760	0.00540	07700	.00330	.00250	.00120	00020	00110	00220	00310	00590	00800	01040	01250	01530	01800	02470	00108
	3 5	-5.00/	CY . 19480	15410	0045	. 09290	07470.	.05510	.03830	. 02920	.01990	.01190	.00280	00750	01710	02560	03320	05280	07170	09050	- 10830	12930	14940	- 18480	00003
		T INTERVAL	CLM 04230	00950	05450	.07520	.09070	01660.	. 10570	. 10650	.11010	.10940	.11030	10900	.10780	. 10520	. 10690	01001.	.08670	.07140	.05380	.03460	.01223	03270	00007
		GRADIENT	CD . 02350	.02630	04840	.03100	.03270	.03390	. 03450	.03460	.03510	.03530	.03530	.03520	.03520	.03530	.03490	.03390	.03290	.03110	. 02950	. 02750	. 02530	.02210	90000
	N. XC	٦. • 00	CL 20220	17420	15,50	. 13750	. 12680	. 12190	.11700	0111.	.11530	.11270	.11370	.11550	. 11160	.11710	. 11350	. 12340	. 13320	. 13990	.14810	. 16210	.17350	. 1936r	00018
	1 339.9100 1 .0000 . 1 90.7500 1	16/ 0 RN/L	ALPHAM 2.08000	2.08000	08000	2.08000	2.08000	2.08000	S.08000	2.08000	S.08000	€.09000	2.08000	€.08000	2.08000	≥.08000	2.08000	2.08000	2.08000	2.08000	2.08000	2.08000	2.08000	2.08000	. 00000
ATA	XMRP = ZMRP =	RUN NO.	BETA -20.000	-16.000	14.000	-10.000	-8.000	-6.000	-4.000	-3.000	-2.000	-1.000	000	1 000	٥٠ ، ١٥٥	3.000	۴.000	6.000	8.000	10.000	12.000	14.000	16.000	20.000	GRADIENT
REFERENCE DATA	5500.0000 50.FT. 327.7800 IN. 2348.0000 IN. .0400		35.570	75.530	35.50	35,500	35.490	35.490	35.480	35.480	35.480	35.480	35.480	35.480	35.480	35.480	35.480	35.490	35.490	35.500	35.510	35.520	35.530	35.560	
	SREF LREF BREF SCALE																								

	REFERENCE	E DATA						Q.	PARAMETRIC DATA	DATA
SREF LREF BREF SCALE	5500.0000 SQ.FT. 327.7800 IN. 2348.0000 IN.		XMRP YMRP ZMRP	-	1339.9100 .0000 190.7500	<u>zż</u> ż	ZC ZC ZC	ALPHAN	6.380	STAB ELV-08

	CSL .04720	04040	.03630	.03230	02740	. 02260	.01760	.01210.	. 00950	.00700	00400	. 00200	00110	07400	00680	04600	01460	02050	02480	02990	03400	03810	04400	00271
5.00	CLN 02780	.02110	.01820	.01570	.01340	.01120	.00870	.02550	.00510	.00370	07500.	01100.	0.00040	00180	00310	04400	00720	01000	01260	01490	01750	02030	02610	00137
-5.00/	CY 19430	14790	. 12820	. 10850	. 08820	04690.	.05150	. 03620	.02830	01930	.01200	.00270	00510	01350	02140	02880	04710	06420	08360	10210	12220	14150	18050	00820
INTERVAL	CLM - 17830	09520	06650	04370	02400	00520	.01180	.01990	. 02230	. 32570	. 02750	. 02750	. 02620	. 2630	32220	. 02090	.00710	00730	02190	04200	06350	09090	16160	.00006
GRADIENT	CD 04.150	060+0	.04230	.04320	. 04420	. 04520	04040.	.04590	04940	.04600	.04650	.04660	. 04660	04940	. 04560	. 04620	.04570	.04520	.04480	. 04360	.04180	.04000	.03820	.00005
00.	CL 53140	.50610	.50170	.49300	.48630	.48310	07474	.47110	.46820	.46500	.46560	.46720	.46620	.46870	.45870	.46700	01174.	.48000	48750	0+36+	. 50000	.50970	. 52330	00011
17/ 0 RN/L	ALPHAM 5 38000	6.38000	6.38000	6.38000	6.38000	6.38000	6.38000	6.38000	6.38000	6.38000	5.38000	6.38000	6.38000	6.38000	6.38000	6.38000	6.38000	6.38000	6.38000	6.38000	6.38000	6.38000	6.38000	. 00000
RUN NO.	BETA	-15.000	-14.000	-12.000	-10.000	-8.000	-6.000	-4.000	-3.000	-2.000	-1.000	000.	1.000	≥.000	3.000	4.000	6.000	9 .000	10.000	12.000	14.000	16.000	20.000	GRADIENT
	35.570	35.530																						

(14 NOV 75)

(RG0017)

-1.870 .000

Ŧ	
1 SAAL 1	
- -	
ı	
DATA	
FORCE	
SOURCE	
LATED S	
7	

	-1.870 .000																								•	
PARAMETRIC DATA	12.790 STAB = .000 ELV-08 =		CSL	04880	04220	. 03710	00000.	28.50	.01670	.01160	00600.	.00610	.00330	0,000.	00200	00510	00820	01120	01650	02230	02700	03290	03850	04300	04860	00284
PAR	ALPHAM = 18 ELV-18 =	5.00	CLN	.02710	02040	.01780	2000	מינים כ	. 00810	.00590	.00430	.00330	.00200	. 00020	00140	00280	00460	00570	00870	01100	01370	01620	01870	02100	07530	0 147
		-5.00/	Շ	. 20660	. 15640	. 13260	08161	02.20	00160.	.03770	. 02920	. 02270	.01330	.09520	00080	00890	01670	02460	04130	06020	07820	-,09550	11650	13920	18950	00774
		GRADIENT INTERVAL	CLA	32570	21420	16500	יייייייייייייייייייייייייייייייייייייי	OBCBO -	07660	06880	06360	05580	05160	05120	05350	05440	06170	06760	07850	08660	09950	12480	161.0	20850	31470	61000.
		GRADIEN	8	. 13450	13420	.13320	00261.	200	13050	.13170	. 13200	.13150	.13160	. 13110	.13160	.13120	. 13130	. 13070	. 13040	. 12950	. 12970	1.28+0	. 12890	. 12910	.13150	-,00011
	N. X. X. X. X. X. X. X. X. X. X. X. X. X.	۰۰۰ - ۱	ಕ	.92930	.93330	. 92950	08/28.	08066	. 93340	.93980	.94080	.93540	.94340	.93630	. 94300	0+1+6	.94360	.94070	.93930	.93780	. 93790	.93350	.94150	.94460	.94600	. 00039
	1339.9100 1 .0000 1 190.7500 1	19/ 0 RN/L	ALPHAW	12.78000	12.79000	12.79000	70000	79000	12.79000	12.79000	12.79000	•	12.79000	12.79000	12.79000	12.79000	12.79000	12.79000	12.79000	12.79000	12.79000	12.79000	12.79000	12.79000	12.79000	00000.
ATA	XMRP = ZMRP =	RUN NO.	BETA	-20.000	-16.000	-14.000	000	900	-6.000	-4.000	-3.000	-5.000	-1.000	000.	000.	2.000	3.000	4.000	ნ. ეიე	8 · 000	10.000	12.900	14.000	16.000	20.000	GRADIENT
REFERENCE DATA	5500.0000 50.FT. 327.7800 IN. 2348.0000 IN.		o	35.680	35.630	35.610	10.00 P	35.580	35.570	35.570	35.560	35.550	35.560	35.560	35.560	35.560	35.560	35.560	35.570	35.570	35.5.5	35.590	35.600	35.610	35.660	
	SREF LREF BREF SCALE	•																								

PAGE 18

(RG0018) (14 NOV 75)

DATE 15 NOV 75	87 VO	TABULATED		SOURCE FORCE DATA - C	- CA11 (UHAL 1146	146)				<u>a</u>	PAGE 19
			CA110MAI	CALIUMALII46(EXTIKIHIS.	115.1	AT38AT37 T28	128		(800019)	VON 41) (8	NOV 75)
	REFERENCE DATA	E DATA						PAR	PARAMETRIC	DATA	
SAEF LREF BREF SCALE	320.0000 SO.FT. 327.7800 IN. 2348.2000 IN.	FT. XMRP YMRP ZMRP ZMRP	1339.9100 .0000 190.7500	IN. XC IN. YC IN. ZC			365	ALPHAM = ELV-18 = ITANK =	6.380 .000 .030	STAB ELV-08 RTANK	-1.900 .000 :80.000
		RUN NO.	19/ 0 Rt	RN/L00	GRADIENT	INTERVAL -	-5.00/	5.00			
	a		AL PHAM	ช	8	ĭ	č	Z	รว		
	36.10			.59860	. 09870	25160	.36900	.05620	.05860	960	
	36.01		6.37000	. 54860	. 09750	19940	. 27190	.04780	06940 .	069	
	35.98 80.18		6.38000	52920	04760.	16350	. 22800	.04310		120	
	52.57 52.57		6.38000 6.38000	51220	.09660	- 12530	18810	0.03870		07450.	
	35.91		6.38000	00084	05250	- 06970	11340	02860		380	
	35.90		6.39000	47200	. 09290	05310	.08290	.02310		980	
	35.89		6.38000	.47230	.09230	04250	01450.	.01520		290	
	35.89		6.38000	0+69+	. 09220	03540	.04270	.01320		000	
	93.83 83 83.83 83.83 83 83 83 83 83 83 83 83 83 83 83 83 8		6.38000	. 46690	06160	-, 03450	02820	0.600.		070	
	35.890		6.38000	.47150	09280.	03440	01660	51500.	003500	350	
	35.89		6.38000	. 46580	00260	03550	00450	00230	00120	120	
	35.89		6.38000	.46700	07560.	04070	02990	01020	00650	650	
	35.8 <u>5</u>		6.38000	. 46800	0.09240	04450	04070	01320	00900	006	
	35.90		6.38000	.47570	. 09360	05580	07170	02040	01580	580	
	35.91		6.38000	07774.	02+50	07120	- 10090	02520	01980	086	
O (13.93 13.93		6.39000	48890	. 09520	09610	13540	03220	02660	960	
R'	<u> </u>			.50910	0.000	- 12300	- 17470	03710	03270	270	
ĮC	53.97			. 52320	. 09590	- 15480	21510	04110	03790	790	
P(35.00 36.00		5.37000	00355.	09560	18970	00/07	04200	04840	200	
IA P ROC	000	GRADIENT		84000 -	.0000 +0000	75000	01185	00376		7.E3	

ORIGINAL PAGE IS OF POOR QUALITY

(RG0020) (14 NOV 75) PARAMETRIC DATA AT38AT37 T28 CALLUMAL ! 146(EXT)KIHIS. 1V9.1 REFERENCE DATA

	-1.900																										
C UA!A	STAB ELV-OB RUD-L RTANK		ų.	06700	4670	3970	3300	2620	1950	1370	1070	0700	040	0160	0200	0360	0750	0111	1650	2320	2990	3743	4.00	0664	6270	0303	
PAKAME INIC	8.380 .000 .000														•	-			•	·	·	·	·	·	•	·	
	ALPHAH = ELV-18 = RUO-U = ITANK =	0/ 5.00		06000 01											•	•	•	•	•	•	•	•	•	•		•	
		N5.00/		0.69810																							
		INT INTERVAL	מר	- 28290	- 17950	13840	1075(08270	06250	05230	04980	05020	05110	05380	05560	05400	05550	06020	07110	08710	11360	14300	- 17260	2107	28390	00101	
		GRADIENT	8	.09160	. 09130	.09200	. 09200	O9240	. 2925	. 09270	. 09270	.09310	09350	.09310	. 09350	04860	01+60.	.09320	. 09300	. 09270	.09210	07060.	06680.	08830	.08710	. C0012	
	ZC ZC	اد = .00	ರ	.56020	.53570	.51660	. 50250	, 48890	. 47990	.47750	.47430	.47700	01474.	07474.	.47820	06474.	47900	.47850	.47950	.48680	. 50020	.51430	.52950	.54660	.58190	. 00030	
	1339.9100 10000 190.75001	20/ 0 RN/L	•	6.37000	ف	ø	6	10	φ	ø	Ø	ω	ø	ø	ø	ø	۵	ø	Ó	ف	ø	۵	٥	ø	ø	•	
	THRP	RUN NO.	BETA	-20.000	-14.000	-12.000	-10.000	-8.000	-6.000	-4.000	-3.000	-2.000	-1.000	000.	1.000	۶. 900 ا	3.000	₹.000	6.000	8.000	000.01	12.000	14.000	16.000	20.000	GRADIENT	
יבי ביינייבר סיי	7500.0000 SO.FT. 327.7800 IN 2348.0000 IN.		O	36.1 60 36.050	36.000	35.970	35.940	35.920	35.90	35.830	35.830	35.890	35.890	35.890	35.890	35.890	35.890	35.890	35.900	35.920	35.9+0	35.960	36.000	36.030	36.140		
	SAEF LREF BREF SCALE																										

	!
-	
P	
- - - -	
-	
	,
•	
_	
30545	:
2	
ť	

m 5	E 15 NOV 75	TABULATED		SOURCE FORCE DATA - CALL (UMALILYS)	NII C UMALI	~ 9 1				•	PAGE 21	
			CAI IUMAL	CAI 10HAL 146 (EXT) KIHI 5. 6V9.	5.6v9.1	AT38AT37 T28	128		(460021)	-	14 NOV 75 1	
	REFERENCE DATA	ATA						PAR	PARAMETRIC	DATA		
# # # # W	5500.0000 SQ.FT. 327.7800 [N. 2348.0000 [N.	4445 4445 4446 4446 4446 4446 4446 4446	1339.9100 .0000 190.7500	<u> </u>			18 E	ALPHAM - ELV-18 - RUD-U - ITANK -	6.000 000 000 000 000 000 000 000 000 00	STAB ELV-08 RUD-L RTANK	-1.880 .000 .000 .000	
		PCN NO.	21/ 0 RN/L	الا • .00	GRADIENT	GRADIENT INTERVAL .	-5.30/	5.00				
	o	BE TA	AL PHAM	d	8	E TO	Շ	ני	S			
	36.170	-20.000		58550	00160.	24120	.51770	02400	. 06650	550		
	36.060	-16.000		.55600	.09130	20070	40220	01990	in .	280		
	36.010	000.41-		. 53250	04060	- 16400	34030	01630	00140	9 9		
	35. 350 350 350	-10 000	5.38000 6.38000	50210	04/60	13830	25820	00740	03330	330		
	35.920	-B. 000	6. 380ù	48900	.09280	08550	17750	00400	.02720	720		
	35.910	-6.000	6.38000	01841	. 09290	06890	. 12640	02000.	. 02	0.0		
	35.830	-4.000	6 .39000	.47760	. 09360	05A00	04180	04800	01380	380		
	35.830	-3.000	6 . 38000	47690	.09370	05.70	0.05640	.00480		01040		
	35.890	-2.000	6.38000	.47860	00460	- 05540	.03800	00400°	01800	٠ ش		
	33.890 81.890	-1.000	6.38000	04774	03460	05610	. 01950	מיאמט.	02200.	200		
	35.830	000	6.38000	47590	09460	06100	00860	. 00020	00160	160		
	35.830	≥.000	6.38000	47640	05+70	06120	02780	0.000	00510	510		
	35.890	3.000	6 .38000	0+08+	08+60.	06013	04950	00030	- 00	ງ <u>ອ</u> ເ		
	35.890	£ . 100	. 38000	.47750	02450.	05610	06560	000010	01120	150		
	35.910	6.000	S. 38000	47900	.09380	07650	11850	04800.	01750	750		
	35.920	000.00	6.38000	08984	09310	021.0	15670	00690	00500	9.		
	33.340	200	20000 30000	0000	. מינים מינים מינים	17080	07500	0.00	- 03750	25.5		
	36.010	14.000	6.37000	52590	0680	- 15550	- 53380	0,0	3	3.40 3.40		
	36.050	16.000	6.37000	53630	0.08840	- 18590	38730	. 025 30	75000	000		
	36.160	£0.000	6.37000	.57380	. 28740	24220	50270	.02200	06260	260		
		GRADIENT	- ,00000	80000	21000	- 000gB	- 01764	00071	00	310		

1.

SHEF LHEF BREF SCALE

SAEF LREF BREF SCALE

ŧ

15 NOV 75	11	TABULATED		SURCE	FORCE	: DATA -	SOURCE FORCE DATA - CALL ! UMALILYS	146)				•	PAGE	55
			_	CALICE	ML114	6(EXT)K	CA11UNAL1146(EXT)KIH15.6V9.4	AT38ATZ7 T28	128		(RG0022)	~	14 NOV 75	•
RETERENCE DATA	CE DATA									PAR	PARAMETRIC I	DATA		
9500.0000 SQ. 327.7800 IN. 2348.0000 IN.	Ė	2450 2450 2450	M H	.0000 .0000 190.7500	888 333	858 858			출목 8 도	ALPHAN - ELV-18 - RUD-U - ITANK -	0000	STAB ELV-OB RUD-L RTANK	.1.880 .000 .000 .000 .000	-1.880 .000 .000 .000
	PLK ND.	Š	35	0	7 ₩ /Ł			GRADIENT INTERVAL =	-5.00/	5.00				
		TA	_	ALPHAM		ಕ	8	OLH C	ჯ	Z C	g			
13.13	20 - 061	-20.000	6 0 (.37000	_	58500	04060	24660	34750	03590	070	9		
		000	D 40	37000		0000 0000 0000 0000		20220	42650 354 40	- 03330	. 65750 04750	25		
		000	Ó	38000		.51690	0+060	- 13990	30390	02370	3	20.00		
		000.	10	.38630	_	30440	00260	11600	. P+370	01710	.03680	98		
		. 000	Ś	. 38000		01694	09260	08700	18891	01100	.029	50		
		-6.000	ف	. 38300	_	148420 1	.09320	06990	. 13770	00490	. 022	90		
		.000	ا فيا	. 38003	_	17770	. 09383	05893	.08780	. 00020	¥ 0.	0		
	S- 06	3.000	LÓ (. 38000	_	0+00-	. 09360	05650	.06330	. 00150	.01130	30		
		000	D t	38000	_	1900	. 09350	05570	.04180	00270	.00760	20		
	38	000	Ø U	38000	_	01574.	08+80	05720	. 02240	00300	00470	9 9		
	88		o «	18000 18000 18000		47870	2,400	1.05910	02800	ייים ייים	24100.	2 6		
	96	000	Ġ	39000		01854	05.60		02880	. 00120	005) () ()		
	8	€.000	ø	.38000	_	016/4	39493		04950	. 00240	- 008	06		
	- S	000.	φ	. 38000	_	.48060	05+60		07310	.0330	019	Ç,		
	_	. 0 30	ف	38000	_	¥8150	.09130		12320	.00750	019	00		
	_	3.000	w	. 38000	_	.48820	.09260		17870	.01370	026 [.]	9		
	_	. 003	ø	. 39000		0.7.	. 09160		-, 23290	01837	0333	C G		
	_	12.000	9	38000	_	.51030	01680.		28480	, u2430	04040	9		
	_	000.41	Ó	37000	_	52790	01880.		35130	.03130	04730	30		
		9.000	0	37000	_	. 53820	06770	- 19090	J. 2840	.03530	05420	20		
	` {	000	٥	37000	_	57340	. 08630		52950	04010	06720	2		
	CAMPO	JENT		. 00000	_	+ L000 .	. 00013		01925	£1000.	0033	32		

1

-1.600 .000 .000 .000 .000 23 25 YOU 32 PAGE PARAMETRIC DATA 0.00 - 0. (RG0023) 8. 200 85. 000 000 000 5.00 ALPHAH CLV-IB RUD-U ITANK -5.00/ AT38AT37 128 GRADIENT INTERVAL 0.09830 0.09830 0.09830 0.09830 0.09770 0.098300 0.09830 0.09830 0.09830 0.09830 0.09830 0.09830 0.09830 0.098 CAT : UMAL 1146 (EXT) KINIS, 6V9.4 なてび 1339,9100 IN. 0000 IN. 190,7509 IN. RN/L 0 23/ 5 N REFERENCE DATA 8 . . F. 0000 0000 0000 0000 2 K 2 8

學 重八十二

TABULATED SOURCE FORCE DATA - CAII (UMALII46)

1

PAGE 3

(RG0024) (14 NOV 75) AT76AT71 T28.1 CA11UWAL1146(EXT)KIH15.6V9.4

	-1.880 .000 25.000																									
C DATA	STAB ELV-OB : RUD-L : RIANK :		_1	.05900	5230	1590	3890	3170	2480	1800	1450	1170	0870	0580	0270	0110	0430	0550	1260	2000	2640	3310	3947	0454.	557.	0311
PARAMETRIC	6.380 .000 .25.000 -5.000																									
a	ALPHAM = ELV-:B = RUD-U = ITANK =	5.00	טרא	05390	060+0	05490	0476	- 0413	0363	0308	0283	0271	• . 026'•	0276	024B	D240	0235	0235	0209	0170	0125	0083	-,0052	00270	0011	.000
	A대	-5.00/	Շ	.62,80	42970	36410	. 29950	01442.	. 19050	147.0	.11.70	. 09430	.07430	. 05670	.03110	.01080	0.00940	02450	06960	12380	17870	23620	-, 25890	36040	48120	02163
		INTERVAL -	P.S		-,10290	09210	07830	05850	01640	03990	03720	03840	03840	04090	04130	03900	04160	04480	05040	06160	07330	08600	09790	10710	10560	00058
		GRADIENT	8	11190	11920	12040	. 12130	. 12350	. 12510	. 12770	. 12790	. 12930	. 12820	. 12820	. 12870	. 12900	. 12930	.12910	. 12710	. 12620	. 12480	. 12380	. 12200	. 11830	.10880	61000.
	N. XC N. 4C N. 4C	رد 🖛 .000	ರ	45520	.48130	04664.	07774.	.47150	. 46820	. 46860	07074.	.47060	.43950	.46890	0604.	. 46950	. 47290	.47060	.47160	.47310	J0174.	.47270	.47340	.46870	. 45280	. DON23
	1339.9100 1 .0000 1 190.7500 1	24/ 0 RN/L		(i) (i)	6.37000	Ġ.	Ġ.	œ.	œ.	ω̈	ώ	œ.	ဖ်	ø.	ø.	œ.	φ.	œ.	œ.	œ.	ω̈́	ω.	Ġ.	ŵ	Ġ.	•
ATA	XMRP = YMRP = ZMRP =	RUN NO.	BETA	-20.000	-14,000	-12.000	-10.000	-8.000	-6.000	-4.000	-3.000	-2.000	-1.000	000.	1.000	2.000	3.000	4.000	6.000	8.000	10.000	12.000	14.000	16.600	20.000	GRADIENT
REFERENCE DATA	5500.0000 SQ.FT. 327.7800 IN. 2348.0000 IN. .0400		σ	36.290	36.110	36.060	36.020	36.000	35.970	35.960	35.960	35.951	35.950	35.950	35.950	35.950	35.950	35.950	35.960	35.970	35.990	36.020	36.060	36.100	36.190	
	SREF LREF BREF SCALE																				,					

1.

(UMAL1146)
TA - CA11
ABULATED SOURCE FORCE DATA
TED SOURCE
TABULAI
ATE 15 NOV 75
DATE 1

SREF LREF BREF SCALE

27 VC	TABULATED		SOURCE FORCE DATA - CAIL (UMALII46	A - CA	11 C UMAL 1	146)				PAGE)E 25
		CA1 'U	CAI 'UWAL I 146 (EXT) KIHI 5.6V9.4	TIKIH	5.6V9.4	AT70AT71 T28.1	128.1		(RG0025)	VON 41 0	. 25 V
REFERENCE DATA	ATA							PARA	PARAMETRIC DATA	_	
327.7800 IN. 327.7800 IN. 2348.0000 IN.	XMRP YMRP ZMRP	1339,9100 ,0000 190,7500	00 IN. YC				ALPHA ELV-1 RUD-U ITANK	1 1 1 1 3 0	6.380 STAB .000 ELV-08 25.000 RUD-L .000 RTANK	[™] 6-3	-1.880 .000 .000 .000
	RUN NO.	% %	RN/L =	80.	GRADIENT	INTERVAL =	-5.00/	5.00			
o	BETA	ALPHAM	ช่		8	SLM	Շ	CLN	18 0		
36.290	-20.000	ωu	0 43750	<u>ي</u> د	.11620	.00360	.61340	07090	.07600		
36.110	-14.000			2	. 12323	03680	42390	06430	.05680		
36.050	-12.000		0.47220	0.5	12310	- 03000	. 35850	05690 - 05690	04040		
36.000	-8.000			30	12710	00930	0000+0.	04180	.03360		
35.980	-E.000			20	. 12890	. 00430	. 19000	03670	. 02920		
35.970	-4.000		02494. 0	20	. 13040	00600.	. 14000	03000	.01850		
35.960	-3.000			0 5	. 13050	. 50890	.11780	02770	01570		
35, 950	-1.000			200	05051	00810	07900.	02840	00970		
35.950	000			1.7	.13150	.01050	.06990	03130	.00620		
35.950	1.000			8	13170	.00720	.04270	02920	.00300		
35.950	. 000 . 000		0 .45650	ממ	13:50	07800.	01570	02550	00000		
35.00	7.000	שים	•	200	01.2	00000	00620	00000	- 00820		
35.960	6.000		•	0 0	. 13170	00130	07100	02080	01400		
35.970	8.000	œ.		8	. 12970	00780	11540	01770	02170		
35.990	10.000	œ.		8	. 12760	- 05060	17390	01200	02830		
36.020	12.000	ω.	0.46970	20	. 12570	02820	22570	00760	03600		
36.050	14.000	ம்		8	. 12360	03650	28280	00370	04260		
36.093	15.000	ம்		2 2	.12140	03490	- 33980	00160	04880		
36.150	20.000 GRADIFMT	5.3/000	5000 C	ש ער הא כי	. 1 000 F 1 000	- 03030	- 45650	0000.	01090 -		

ORIGINAL PAGE IN

~
Ξ <u>+</u>
UMAL 11:4
_
CALI
- 1
DATA
FORCE
SOURCE
ABULATED
ğ

S 5		-1.880 .000 .000																								•
(RG0026) (14 NOV	TRIC DATA	6.380 STAB000 ELV-OB000 RUD-L		CSL	.05860	.05140	02110.	.03630	02620	56155	00010.	01800	. 00500	04100	00280	00590	00900	01240	01910	02730	03430	0.040.	0+8+0-	0.05440	06550	-,00345
2	PARAMETRIC	ALPHAM 6.: ELV-19 HUD-U	5.00	CLN	Ť			01530			08000.			.00130												
1 728.1		₹ 5 €	-5.00/	C.	10473	.35400	. 29370	.23070	. 18230	. 15150	002200	0000	.02530	.00630	02000	03870	05850	07670	- 12460	17720	22910	28170	35040	05114	53120	0202.5
AT70AT71 T28.			INTERVAL	CLM	04580	05430	05050	04150	02820	01210	2000-	00000	-,00080	00220	00550	00160	00530	00990	01960	03100	04700	04730	05590	05590	04010	00090
115.679.4			GRADIENT	CD 10960	. 11630	00811.	. 12000	12090	. 12370	00001.	00/01	04921	12550	. 12590	. 12550	. 12610	. 156+0	. 12700	. 12560	. 12380	. 12080	.11780	.11620	.11330	. 10460	00000
CA11UMAL1146(EXT)K1H15.6V9.4		N. XC	٦٠ - 00.	CL 44570	47320	.48010	.48310	47910	.47620	0007.	ייייייייייייייייייייייייייייייייייייי	46860	47270	.47320	.47180	61074.	.47160	.47360	.47300	.47630	01774.	.47380	47510	01694	.43460	. 00023
CA11UMAL		1339.9100 .0000 190.7503	26/ 0 RN/L	ALPHAM 6 27000	6.37000	6.37000	6.37000	6.37000	6.38000	6.38000	0.28000	6.38000	6.38000	6.38000	6.38000	6.38000	6.38000	6.38000	6.38000	6.38000	6.37000	6.37000	6.37000	6.37000	6.37000	. 00000
	ATA	XMRP THRP THRP	RUN NO.	BETA -20 000	-16.000	-14.000	-12.000	-10.000	-8.000	900	000	-2.000	-1.000	000.	1.000	S.000	3.000	4.000	6.000	9.000	10.000	12.000	14,000	16.000	20 . 000	GRADIENT
	REFERENCE DATA	5500.0000 SQ.FT. 327.7800 IN. 2348.0000 IN.		۵ ئا و	36.120	38.070	36.030	36.000	35.980	33.900	35.50	35.950	35.940	35.940	35.940	35 940	35.950	35.950	35.960	35.980	36.000	36.030	36.070	36.110	36.220	
		SREF LREF BREF SCALE																								

æ

PAGE

SOURCE
TEO
بَ
TABUL,
-
K
Š
ū
μ
DATE

	1 20 1
	AT704171 198
בייושרים ייינים שייה ביינים שייה ביינים אייה ביינים אורבים אייה ביינים ביינים אייה ביינים ביינים ביינים אייה ביינים בי	1 0/1
	OVA RICIONTANTANT : INCRESS AND
3	2/241 : 1VC
שליטטני ט	
יייי אמני	

PAGE 27	(14 NOV 75)	ATA	STAB1.880 ELV-08000 RUD-L000 RTANK000		Q	0	0	0	0.	9	0	Ó	č	O	9	O.	ō	ō	9	7
	(RG0027)	PARAMETRIC DATA	0000		CSL .00060	0100	0100.	.0007	.0015	. 001	. 00 is	±100.	3:00.	100.	020J.	. 000E	.0005	. 0 024	. 0033	0000
		PAR	BETA ELY-18 RUD-U ITAKK	13.00	CLN DD170	.00220	00180	.00500	.00250	.00200	01:00	30010	00030	0.00040	00050	00050	00010	00070	00060	₹0000.
	128.1		### ###	-5.00/	CY 00.30	00280	00030	06000'-	00050	01100	02400.	06800	01110	01080	.01420	.01350	.01500	.01370	0110.	91930.
146)	AT70AT71 T28.			INTERVAL .	CLM 21370	.16350	.11500	0.079	.03870	00430	07770	06780	-, 38530	- 10680	11330	12260	14620	22270	33840	02004
SOURCE FORCE DATA - CAIL (UMALII46	15.679.4			GRADIENT	CD 14 14 14 17 17	. 12250	. 11260	. 11120	.11620	. 12530	14080	. 16660	.21280	. 27520	. 35290	42500	04464.	.55810	. 62680	- 00315
ICE DATA - C	CAI IUWAL I 146 (EXT) KIHI 5.6V9.4		17. 17. 17. 17. 17. 17.	L • .00	راد د م الدور	24650	05760	011970	. 29390	47190	.64070	. 79473	. 94380	1.06790	1.18010	1.24350	1.26660	1.29130	1.32360	. 08384
	CAI 1UMAL I		1339.9100 1 .0000 . 190.7500 1	27/ 0 RN/L	BETA	00000	. 00000	000000	00000	00000.	00000.	.0000	00000.	00000	00030.	00000.	00000	00000.	00000.	.00000
TABUL :TED		ATA	XMRP ** ZMRP **	RUN NO.	ALPHAW -4	-2.250	070	2.080	4.230	6.380	8.520	10.650	12.780	14.890	16.960	18.950	20.910	22.940	24.960	GRADIENT
NOV 75		REFERENCE DATA	5500.0000 SQ.FT. 327.7800 IN. 2348.0000 IN. .0400		0 35, 980	35.950	35.940	35.940	35.940	35.940	35.950	35.970	36.030	36.120	36.230	36.340	36.470	36.580	36.700	
DATE 15 NOV 75			SPEF BREF SCALE																	

1.

ĺ.

DATE	5	DATE 15 NCV 75		TABULATE	D SOURCE	FORCE DA	NTA - CA	TABULATED SOURCE FORCE DATA - CAII (UMALII46	, 6 9			
					CALIL	CA!!UMAL!!4S(EXT)K H15.6V9.4	EXTURIHI	5.679.4	AT76AT71 T28.1	128.1		_
		REFERENCE DATA	NCE D	ATA							PARAF	Ž
SREF LREF BREF SCALE		5500.0000 St 327.7800 11 2348.0000 11	50.FT.	XHRP YHRP ZHRP	1339.9100 .0000 190.7500	00 IN. YC	000			49 <u>8</u> =	ALPHAM • ELV-18 • RUD-U • 1 TANK • -	no ivi
				RUN NO.	29/0	RN/L =	8.	GRADIENT INTERVAL	INTERVAL .	-5.00/	5.00	
		0		BFTA	AL PHAL	3		8	ĭ	ò	Z	
		92	230	- 20.000	6.37000		46430	10330	1267:3	56410	03420	
		36.	120	-15.000	6.37000	_	+8010	11:00	- 12623	43220	03220	
		36.	070	-14.000	6.37000		48500	. 11370	11790	.36550	0.730	
		36.	030	-12.000	6.37000		01884.	. 11620	- 1:010	30030	02150	
		35.	066	-10.000	6.37000		04084	. 11660	00960	. 23860	01500	
		35.	970	-8.000	6.38000		47900	. 11920	08540.	. 18450	00950	
		35.	960	-6.000	E.3800		.47660	. 12120	06450	. 1347.	00570	
		35.	950	000·	6.38000		.47410	. 12320	05160	. 0857.3	00160	
		35.	O.F.O	-3.000	6.3800		0669ኣ.	. 12370	-,04770	. 06250	00000	
		35.	0+6	-2.000	6.3800		7050	. 12380	045 90	07140.	.00020	
		35.	940	-1.000	6.38000		.46940	. 12360	04920	. 02020	09000	
		32	0 to	000	6.38000		.46930	. 12400	05110	00 8 0	00100	
		32.	0 10	000.	6.3800		.46980	. 12370	- 5:10	0x.01.	.00320	
			0 7 0	8.000 8.000	E. 38000		7130	12410	016.5	03580	.00360	
			35.40	3.000	5.3800		02074.	16370	0.0000.1	05050	00.800	
					0000			0000		00000	0000	
		0 6	000	000	0.00		000	000		0/22	06500	
			0/6	9.000	6.380(055/5	0.1970	60333	- 18420	.01430	
		9 5	9 0	10.000	0.5/0		00.7	000	0.000.	יייייייייייייייייייייייייייייייייייייי	טינים. סינים	
		9 5	000	2000	0 5/0(7040	000	1.10350	203/0	0800.	
			200	14.000	6.37000		0/0/1	11330	113/0	- 35350	02120.	
		, i	220	000	20075		10011	0000	11370	55020	0.000 000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.	
	0,		3	GRAD: ENT	. 00000		0001.2	.00002	00036	02073	.00080	

(RG0029) (14 NOV 75

METRIC DATA

PAGE

ONIGINAL PAGE IS OF POOR QUALITY >0N +1 (RG0030) AT70AT71 T28.1 CA11UMAL1146(EXT)K1H15.7V9.4

75 STAB ELV-08 RUD-L RTANK PARAMETRIC DATA CSL 07320 07320 07320 07320 07520 07 6.380 .000 .000 .000 CLN
- 05070
- 04520
- 04520
- 02950
- 05300
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- 00550
- ALPHAW ELV-1B RUD-U 1TANK 5.00 CY 556850 578620 5778620 178620 17870 1.010 006810 007480 007 -5.00/ GRADIENT INTERVAL 10750 11140 11180 11180 11180 11280 11281 11281 11281 11280 11280 11280 11280 11280 11280 11280 11280 11280 11280 11280 11280 8 CL 44700 48260 47890 47700 47700 XXX <u>zzz</u> **P** 1 1339.9150 1 .0000 1 190.7500 1 ALPHAM
6.37000
6.37000
6.37000
6.37000
6.38000
6.38000
6.38000
6.38000
6.38000
6.38000
6.38000
6.38000
6.38000
6.38000
6.38000
6.38000
6.38000
6.38000
6.38000
6.38000
6.38000
6.38000
6.38000
6.38000
6.38000
6.38000 30/0 BETA -20.000 -15.000 -16.000 -10.000 -5.000 -5.000 -2.000 XMRP YMRP ZMRP 2 2 3 3 3 REFERENCE DATA 5500.0000 50.FT. 327.7800 IN. 2348.0900 IN. 36. 25. 26. 27

PAGE

Ę

SREF LREF BREF SCALE

DATE 15 NOV 75		TABULATED	D SOURCE FORCE DATA		- CA11 (UMAL1146	146)				_	PAGE 31
			CALLUMAL	CAIIUMALII46(EXT)KIHI5.11V9.4	15.1179.4	AT70AT71 T28.	128.1		(RG0031)	-	14 NOV 75 J
æ	REFERENCE DATA	ATA						PAG	PARAMETRIC	DATA	
SAEF = 5500.0000 LREF = 327.7800 BREF = 2348.0000 SCALE = .0400	800 SA.FT. 800 IN. 900 IN.	SHIZ SHIX	1339.9100 .0000 190.7500	IN. YC			498F	ALPHAM ELV-18 RUG-U ITANK	6.380 .000 .000	STAB ELV-08 • RUD-L RTANK	088.1- 0000.
		RUN NO.	31/ 0 RN/L	ار ≖ .000	GRADIENT	INTERVAL =	-5.00/	5.00			
	o	8€TA	ALPHAW	ಕ	8	מרא	Շ	CLN	SC		
	36.270	-20.000	6.37000	06544	. 11020	02350	. 59580	06720	.07380	380	
	35.090	15.000	6.37000 6.37000	47830	11580	- 04720	39010	05170		05380	
	36.040	-12.000	• •	48270	11900	05230	. 32550	07270 -	.04630	530	
	36.010	-10.000		48100	. 12000	05110	. 26280	03320	EO.	960	
	35.380	-8.000	6.38000	.47820	12280	03640	. 20380	02450	03030	0.00	
	35.950	000.4-		47370	12:30	01010	06860	06800 -		000	
	35.950	-3.000		46980	. 12650	00713	. 07410	00580	.01220	220	
	35.950	-2.000		47060	. 12630	00430	. 05230	00420	00600	300	
	30.940	000	6.38000 6.38000	47550	12640	00870	06810	06000	05500. 07100.	050 070	
	35.940	1.000		06+4+	. 12620	01110	02070	.00450	00260	560	
	35.940	2.000		. 47230	. 12500	00950	04130	00570	00580	080	
	35.950	1000	6.38000	47400	12620	0.00	- 08700	0.00.0	-, 01250	000	
	35.960	6.000		47560	. 12520	02530	13730	.01780	- , 02000	200	
	35.980	8.000	•	.47390	. 12240	040n0	19470	. 02.700	02830	930	
	36.000	10.000		47590	11940	05180	25270	.03540	03580	580	
	36.040	12.000		.47530	. 11750	05430	•	04200	04 350	350	
	36.080	٠٠٠ ١٠٠٠ ١٠٠٠	5.37000 5.37000	091/4	2000	0.48.0.1	- 37780	. 05550	050c0 05x20	000	
	36.130	16.000		45860	11200	- 04260	- 44360	.05860	05640	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	•
	36.240	20.000		.42880	.10360	02250	56720	06570	06840	940	
			0000	-0000	50000	000 · -	- 00 300	31200.		200	

DATE 1

DATE 15 NOV 75	TABULATED		SOURCE FORCE DATA - C.	CAII (UMAL'I46	146.)				PAGE	35 35
		CA11UMAL	CALIUMALII46(EXT)KIHI5.11V9.4	15.1179.4	AT72AT73 T28.:	128.:		(RG0032)	23 (14 NOV	0V 75 1
REFERENCE DATA	ATA						PAR	PARAMETRIC	DATA	
SREF = 5500.0000 SO.FT. LREF = 327.7800 IN. BREF = 2348.0000 IN. SCALE = .0000	XMRP ** YMRP ** ZMRP **	1339,9100 .0000 190.7500	1. X X X X X X X X X X X X X X X X X X X			18°	ALPHAM - ELV-18 - RUD-U - 11ANK -	6.380 .000 .000	STAB ELY-OB RUD-L RTANK	000. 000. 000. 000.
	PUN NO.	32/ 0 RN	RN/L00	GRADIENT	GRADIENT INTERVAL .	-5.00/	5.00			
o	BETA	ALPHAW	ಕ	8	כרא	۲	Z	SS		
36.290	-20.000	6.37000	.43330	. 12310	-, 00960	.60040	06480	.07	.07390	
36.160	-16.000	6.37000	46390	12910	04720	.46120	05660	. 06:	050	
36.120	-14.000	ġ.	01+94	.13300	03870	.39880	.04870	.05	300	
36.070	-12.000	ó	06694.	. 13550	1.04540	.32600	03760	04240	240	
36.040	-10.000	Ġ	.46730	.13720	04030	. 25940	02810	.03	740	
36.010	-8.000	w	. 470 80	.13850	02480	. 19930	020A0		960	
35.930	-6.000	Ġ	06+94	.13970	00810	. 14820	-, 01390		300	
35.980	-4.030		02+94	. 14130	.00360	. 09790	00660		5.70	
35.980	-3.000	ø.	0+634.	.14260	. 00950	.07530	00400		0+0	
35.970	-2.000	ė.	0+65+0	. 14223	.01120	.04850	00120		930	
35.970	-1.000	ம்	04684°	. 14150	.0:030	. 02660	. 00020		+ 60	
35.970	000.	ø	00694	.14160	.01280	0.006.	. 00130		070	
35.970	1.000		.46880	.14200	.01280	01740	.00320		350	
35.970	2.000	ø	47210	14240	.01280	03770	.00530		290	
35.980	3.000	ம்	07374.	.14330	. 20690	06410	.00833		040	
35.980	* . 000	Ó	17460	. 14 320	.00250	08580	.01050		370	
36.000	6.000	Ġ	02474	14420	00470	13850	04710.		150	
36.020	8.000	ιÓ	.47590	. 14320	01470	19350	. 02690		900	
36.040	10.000	Ó	08674.	00141.	02540	25540	.03690		077	
36.080	12 000	ø	026/ 4.	. 13500	02840	31900	0.04610		530	
36.110	14.000	ø	.47830	.13620	02530	37510	.05380		520	
36.170	16.000		.47630	. 13520	02600	01544	.06180	•	950	
36.270	20.000	ø	.45540	. 12710	-,0;950	55730	. 06520		920	
	GRADIENT	•	.00105	.00017	-, 00013	02282	. 00202	00374	374	

SCALE

8688 K Y 100 STAB ELV-08 RUD-L RTANK PARAMETRIC DATA CSL 007440 008450 003130 003130 00310 00310 00310 00310 00310 00310 00310 00310 00310 003400 003400 003400 003400 003400 003400 003400 003400 003400 003400 003400 003400 003400 003400 003400 (RG0033) 80000 5.00 ALPHAH ELV-18 RLD-U ITANK CY 56480 56110 56110 56110 56110 56110 66110 -5.03/ CAITUMALTINGEEXTIKINIS.11V9.4 AT72.1AT73.1 T28.1 GRADIENT INTERVAL 11.400 11.400 11.400 11.600 11.3010 11 8 CL 44680 47780 48110 48110 48110 47380 XYX zżż RXL .0000 .0000 190.7500 ALPHAH
66.37000
66.37000
66.37000
66.38000
66.38000
66.38000
66.38000
66.38000
66.38000
66.38000
66.38000
66.38000 G 33 ### 1970 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1 \$ **2** REFERENCE DATA SO.FT. 3200.0000 327.7800 2348.0000

1

DATE 15 NOV 75	TABULATE	O	SOURCE FORCE DATA - CATT (UMALITYS	A11 C UMALI	(94)		٠			PAGE	ň
		CA 1 1 UMAL	CALIUMAL LIMB(EXT)KIMIS.6V9.4	15.679.4	AT70AT71	128		(RG0034)		ACM RE I	, 35°
REFERENCE DATA	DATA						PAR	PARAMETRIC	DATA		
SPEF = \$500.0000 SO.FT. LREF = 327.7800 IN. BPEF = 2348.0000 IN. SCALE = .0400	YMRP	. 0000 . 0000 190.7500	1 X X X X X X X X X X X X X X X X X X X			475-	A_PHAM FELV: 18 FEUD-U	6.380 .000 .000	STAB ELV-09 RUO-L RTANK		-1.882 .030 .030 .030
	RUN NO.	341 0 RN/L	الا • .00	GRAD1ENT	GRADIENT INTERVAL .	-5.00,	5.00				
a	BETA	ALPHAW	บ	8	Cl.	ځ	CLN	CSL	į		
36.210 36.100	-20.000	6.37000 6.37000	. 49220	. 09840 . 10500	08120	. 54280	03910	. 05870 05870	090 870		
36.050	14.000	6.37000	07267	.10720	07880	35631)	02910	.05150	05150		
35.980	-10.000	6.38000	08984	01011.	06650	. 23083	01500	.03590	200		
35,960 35,640	-8.000	6.38000	48163 48080	. 11290	00640-	18003	01020	02900	900		
35.930	-4.000		.4.7620	.11610	02450	06480	00100	01580	280		
35.930	-3.000	6.38000	0+774.	.11650	02050	06990	00050	02110.	50		
35.920	-1.000		.47660	0.511.	02330	.02690	0.000.	06+00	96,		
35.920	000.	6.38000	.47950	11590	02550	00190	00100.	001100	110		
35.930	2.000	6.38000	.47680	.11580	02430	03900	. 0360	00580	280		
35.930	3.000 3.000	E.390130	147920 0.00	0.11640	02500	05950	00430	00880	980		
35.940 35.940	6.000	6.38000	.48380	11460	03870	1.12450	00800	01920	050		
35.960	8.000		.48310	.11230	05110	0,_0,11	004:0	02590	590		
35.980	10.000		.48860	. 10970	06910	22670	.01960	03350	350		
36.050	000.*1		01581	10610	08160	0/182	03570	- 04050	300		
36.090	16.000		.48550	.10330	08110	02805	.03730	05410	0-		
36. 190	20.000 GRADIFNI	6.37000	.46710	07760.	084:0	.52030	080+0.	. 0	.06520		

NOV 75	TABULATED		SOURCE FORCE DATA - CA	CALL CUMALITYS	146)				PAGE 35	
		CALLUMAN	JA11UMAL1146(EXT)K1H15.6V9.	15.6v9.1	AT70AT71 T28.1	128.1		(RG0035)	14 NOV 75	_
REFERENCE DATA	ATA						PAR	PARAMETRIC DATA		
5500.0000 SQ.FT. 327.7800 IN. 2348.0000 IN.	XHRP YHRP ZHRP	1339.9100 .0000 190.7500	N. XC			ALPHA ELV-16 PLO-U	1111	6.380 STAB .000 ELV-08 .000 RUD-L .000 RTANK	0000.	0000
	RUN NO.	35/ 0 RI	RN/L = .00	GRADIENT	GRADIENT INTERVAL .	-5.00/	5.00			
	BETA	ALPHAM	ಕ	8	מרא	Շ	CLN	385		
230	-20.000	ω	. 45400	07601	03670	. 53770	03150	00690		
010	-16.000	o c	47690	0.11540	05160	00101	02650	. 05590		
50.05 50.05	14.000	5.57000 5.37000	08.081 08.081	08801	. 05530 . 05550	33800	- 02030	ברת אם המינות אם		
000	-10.000	ω ο	07.64.	. 12130	- 04170	21730	00820	03380		
086	-8,000	Ġ	.47830	. 12340	02560	17010	00560	02720		
960	-6.000	Ġ	47750	12570	01050	. 12240	00200	. 02020		
960	-5.000	ó	05474	. 12640	~. 00690	. 09850	00000	01680		
ည်	-4.000	œ.	~75C4.	. 12700	00200	. 07920	01100	01430		
000 000 000	-3.000		. 1731	. 12643	00050	.05803	. 00170	01000		
و ق و	-2.000	o o	47650	126.9	00140	03230	04100.	00770		
ب م م	-1.000		C 4	12510	09000 -	05470	. 00080	05+00.		
0,0	000	o co	07874	12553	09260	20020	00530	05.200		
5	2.000	Ó	47800	. 12650	02000	03860	.00160	00590		
950	3.000	Ġ	08474.	. 12680	00240	05430	.00120	09810		
950	4.000	Ġ.	.47590	. 12690	00520	07410	. 00180	01140		
096	6.000	Ċ	. 47680	. 12610	01480	1.910	09460	06/10 -		
286	8.000	œ.	0,000	. 12420	02840	16800	. 00830	02550		
000	10.000		06LL	. 12130	- 04180	. 21550	06110	03160		
030	12.000	œ.	0+284	. 12060	04690	2757:0	.01760	03990		
090	14.000	vo (0.47840	. 11760	05083	33370	.02310	04620		
01.6	16.000	uo u	.46560	. 11500	04263	. 39250	02690	- 05150		
2	GRADIENT		51000	00000	00000	01923	00015	00320		

ORIGINAL PAGE IS OF POOR QUALITY

DATE 15 NOV 75

SPEF LREF BPEF SCALE

SCALE SCALE

15 NOV 75	T.	TABILATE	NTED GURCE FOR	OURCE FORCE DATA - CALL (UNALITYS	AII C GHALI	146)				•	PAGE 3E
			CATIUM L	CALLUM LITHGEEXTHRIMIS. 1V9.1	15.179.1	AT70AT71 128.1	128.1		(RG0036)	~	14 NOV 7-5 1
	REFERENCE DATA	DATA						PAR	PARAMETRIC	DATA	
	5500.0000 50.FT. 327.7800 IN. 2348.0000 IN. .0400	7. XPPF YPPRP ZPRRP	1339.9100 .0000 190.7500	IN. XC			398E	ALPHAH = ELV-18 = RUO-U = 1 TANK =	8. .000 .000 .000	STAB ELV-08 - RUD-L RTANK	000 000 000 000
		RUN NO.	36/ 0 RN/L	رر • .00	GRADIENT	GRADIENT INTERVAL .	-5.00/	5.00			
	0		ALPHAH	ಕ	8	C.	Ç	מרא	හු		
	86.210	-20.000	6.37000	07303.	. 10930	. 06890	502:00	01810.	0690.	2	
	36.050		6.37000	06984	00611	06730	05018	00170		04850	
	36.020		6.37000	48500	12050	05460	. 25000	. 00270	= 3	0 -	
	35.990	•	6.37030	.48170	. 12160	03810	0676T.	. 00630	.03320	320	
	35.970		6.3800r	09464.	. 12380	02340	07.871.	. 00660	7 0.	530	
	35.960		6.38200	47260	12440	01600	. 108/20	. 00650	09610	960	
	38		6.38000	09694	. 12590	00030	067.70	00900	01340	01	
	55. C. M.		58000	00000	02021	00270	0467	0/500	07010	070	
		-1.000	6. 3000F	15890	12190	02.00	06910	02100	07700	007	
	35.95		69000	.47.320	12420	.00060	.00210	00000	09000	090	
	35.940		6.38000	.46780	00×21.	0,000.	01380	01006	00170	170	
	2		6.38000	0.2074.	0**21.	. 00160	03100	00250	90.	530	
	8.69 8.69 8.69 8.69		6. 380.00	46890 1	087d-	0,000.	04560	00420	- 00800	900	
	3		6.38030	02274.	. 12580	00220	- 06270	- 000010	031 10	0 2	
	200		5.38300	47320	00521	01270	- 10260	00590	31,770	20	
	8		6.55.00	085/4	. 12320	02490	- 14430	05.00	02400	00+	
	18.08G			47760	. 12130	04000	03160	00.10	03100	00	
	8.010 010			47650	1.960	05180	20.	- 20040	G3820	920	
	8			. 47690	. 11670	06680	- 30160	.00360	260.70	200	
	86. 181		6.37000	47220	0411	07060	. 36.20	.00630	.0	270	
	28 · 180		6.371300	06484	0110	06280	48350	9	. 06390	390	
		GRADIENT	. 0 00000	. 30017	00002	00032	01628	00162	0031	313	

0ATE 15 NOV 75	NOV 75		TABULA'ED		SOURCE FORCE DATA - CALL ! UNALLINE	111 CURALI	166.0				•	PAGE 37	
				CATIUMAL	CATIOMALIIMBEEXTOKIMIS.I	5.1	AT70AT71 T28.1	1 720.1		(RG0037)	~	14 NOV 75	
	MEFER	REFERENCE DATA	MATA						3	PARAMETRIC	DATA		
SCALE SCALE	5500.0623 327.7800 2348.0000	S. x. x	distrix	1375.9160 0000 190.7500	N X X X			₹ <u>ਜ਼</u> =	ELV-10 • 1 TANK	0000 0000 0000	STAB ELV-08 • RTANK •	1. 000 000 000	
			15 N N O	37/ O Fe	FOL00	ORADIENT	INTERVAL .	-5.00/	9.00				
	O	F	RETA	AL PHAH	ರ	8	טרא	ò	2	B S			
	15	5.143	-20.000		47240	0.00	- 10510	37993	94:30	90.	.06180		
	# 1	2.060		6.37000	C6887	S 2	. 08800	. 27105	Choto.		570		
	*	3.030			0.30	12590	06540	. 2234C	.03760		2		
	**	300.	- 12.000	6 37000	0.50C.3.	. 12560	04740	0.1970	05 + FO .	-	03600		
	'n.	3.980	000 CI-		02174.	12560	03010	C 36.	.03050		070		
	it.	5.970			01514	12640	-,01159	07701	. 02560	•	300		
	E	5.50	-6 000		00894	. 12560	. 30500	.07480	02610.		.01880		
	E.	2,350	•		.45350	. 2510	.01680	05540	00±15.	<u>.</u>	. 01300		
	.	5.50			34654.	12470	02150.	01610.	010.		250		
	點	5.940	-≥ 000		0.4594	. 12450	07370	. 02530	.00730		06700.		
	E;	5.950	0001-		.46030	. 12350	. 02050	00.	00400		. 004 30		
	H	5 9 0	000		06094	. 12320	.02030	. 00260	00000		200		
	# ·	ر ا ا	000 .	8 38000	01791	. 12360	.05150	00840	00280	00120	150		
	i i	3	000 N		281Sv.	12370	. 02230	. 02190	00650	0400	0		
	4	3	C00 .	5 38000	-4652p	0/ N	0.610	03350	08600 -		770		
	L.	200	. 50d	•	45580	12520	033	3.55 vo	01330		200		
	M	5.950	€. 000		. 45820	12590	.00430	07070	08610		580		
	K)	3.960	8.000	•	09694	12570	00920	0986i0	0. 560	02500	200		
	Zi	5.96.2	10.000	•	7.30	12500	02630	13340	- 03050	0.156	077		
	**	5.000	12.000	٠	06774.	. 1,7560	- 04 IC	17350	03480	- 03380	380		
	**	5.020	2000	•	41690	007.7	06000	21530	· . 03600	03950	950		
	*	3	16.000		.47370	. 12,70	00100	- 25 6 50	04170	0458G	280		
	*	5. I20		6.37000	.45180	09*11.	- 08280	35170	01636.	05550	550		
			GRAD : ENT	00000	9+30ů.	00002	00027	01212	00340	96-00	96:	•	

i i

146
JHAL
·
CALL
ı
DATA
FORCE
SOURCE
ABULATED
₹

DATE 15 NOV 75	TABULATE	ED SOURCE FO	TED SOURCE FORCE DATA - CAII (UMALII46	AII C UMALI	146 ;				PAGE	38
		CA11UHAL	CATIUMALII46(EXT)KI	٧9. ا	AT70AT71 T28.1	128.1		(860038)	14 NOV	75)
REFERENCE DATA	DATA						PAR	PARANETRIC DATA		
SREF = 5500.0000 SO.FT. LREF = 327.7800 IN. BREF = 2348.0000 IN. SCALE = .0400	XMRP	1339.9100 .0000 190.7500	IN. XC			BETA RUD-L RTANK	~ ↓} • • •	.000 RUD-U.000.		0000.
	RUN NO.	38/ 0 RN	RN/L = .00	GRADIENT	INTERVAL .	-5.00/	5.00			
σ	ALPHAM	BETA	ಕ	8	P. C	Շ	טרא	150		
35.980	-4.450	00000	37500	14160	01200	06000	.00130	. 00120		
35.950	-2.270	00000.	20630	. 12010	00150	.00210	.00180	06100		
32.940	090	00000	03410	.11060	.01280	.00320	00100	. 00220		
35.940	2.060	00000	. 12690	. 10860	.03030	. 00400	. 00130	. 00150		
35.940	4.210	00000	04482.	.11230	.05000	.00340	00150	0+100.		
35.940	6.360	.00000	.44620	. 12030	.07130	.00370	.0000	.00180		
35.940	8.500	. 00000	.59310	. 13210	.09570	.00720	.00020	00170		
35.960	10.630	00000.	. 72670	.15360	. 13130	04800.	01000:-	.00210		
36.010	12.760	.00000	.85850	. 19420	.16540	.01020	00050	.00160		
36.090	14.830	ეიეი.	.97550	. 25330	. 1866n	.01210.	00080	06100.		
36.200	16.940	.00000	1.07410	. 32480	.2184	.01320	000090	. 00240		
36.310	18.950	00000	1.14120	. 39430	04442.	.01450	00050	.00130		
36.420	20.910	.00000	1.12990	.45150	. 27280	.01580	00060	.00160		
36.520	22.950	00000	1.14670	.51010	.28720	.01320	00050	. 00260		
36.610	₹.980	00000.	1.14950	.55860	. 29240	.01280	0000-	.00330		
	GRADIENT	00000.	.07631	00325	.00719	.00033	00000	00000.		

DATE 15	NOV 75	TABULATED		SOURCE FORCE DATA - CALL (UMALILYS	All CUMALI	146)				PAGE 39	
			CATIUMAL	CAILUMALII96(EXT)KIHI5.6V9.1C2VII AT86AT87 T28.1	15.6V9.1C2V	11 ATBEATS'	7 728.1		(RG0039)	(14 NOV 75)	
	REFERENCE DATA	ATA						PAR	PARAMETRIC DATA		
SREF LREF BREF SCALE	5500.0000 SQ.FT. 327.7800 IN. 2348.00C0 IN.	XMRP * YMRP *	1339.9100 0000 190.7500	2 4 X X X X X X X X X X X X X X X X X X			######	BETA - CLV-18 - RUD-U "	.000 STAB .000 ELV-OE .000 RUD-L .000 RTANK	000. 0000. 0000.	
		PUN NO.	39/ 0 RN/L	رر • .00	GRADIENT	INTERVAL	-5.00/	5.00			
	O	ALPHAM		ಕ	8	CLM	Շ	CLN	CSL		
	36.040	017.1	00000	45370	. 14320	. 21590	00420	. 00290	.00050		
	36.010	-2.250		26820	. 12020	. 18110	00510	. 00320	06000.		
	36.000	070		07200	.11060	. 14770	00130	.00260	. 00150		
	36.000	2.080		01+11.	. 10860	. 11150	00150	.00350	.00130		
	36.000	4.230		. 29530	.11250	. 06610	00070	.00290	. 00130		
	36.000	6.370		.47300	. 12150	00800.	. 20020	.00250	04100.		
	36.000	8.520		.65330	.13760	04300	.00210	04200.	.00100		
	36.030	10.650		.81360	. 16570	06720	. 00580	.00150	.00180		
	36.090	12.780		.96,50	.21300	08050	. 00800	00100.	.00120		
	36.180	14.890		1.09630	.27810	09760	04700.	06000.	.00120		
•	36.290	16.960		1.21130	. 35760	09970	. 00580	.00120	.00120		
O)	36.410	18.950		1.28870	.43280	- 12640	.01150	06000.	.00100		
R!	36.530	20.910		1.31760	. 50270	0+0+1	08410.	0000	.00120		
(G	36.670	22.930		1.38350	.58740	19390	.01530	00030	. 00270		
1	36.810	24.960		1.43000	66490	26430	.01380	00020	.00210		
N.		GRADIENT		. 08686	00338	01703	64000.	- 00000	60000.		

ORIGINAL PAGE IS OF POOR QUALITY

DATE 15 NOV 75	TABULATI	TABULATED SOURCE FORCE DATA - CALL (UMAL 1146	DATA - CA	11 C UMAL 1	146)			;		
		CA11UMAL114	S(EXT)KIHI	5.6v9.1C2v	CAILUMALII46(EXT)KIHI5.6V9.ICZVII AT86AT87 T28.1	128.1		(RG00+0)	VON +1	0V 75 1
REFERENCE DATA	DATA						PAR	PARAMETRIC	DATA	
SREF = 9500.0000 SO.FT. LREF = 327.7800 IN. BREF = 2348.0000 IN. SCALE = .0400	XHRP	1339.9100 IN. .0000 IN. 190.7500 IN.	222			PECV TECV	ALPHAM = ELV~1B = RUD-U = ITANK =	6.380	STAB ELV-08 RUD-L RTANK	-1.970 .000 .000
	RUN NO.	40/ 0 RN/L	00.	GRACIENT	GRADIENT INTERVAL -	-5.00/	5.00			
σ	BETA	ALPHAM	ี่	9	E C	ر	CLN	S		
36.320	-20.000	6.37000	.45340	. 10680	09750	59510	04830	990.	380	
36.200	-16.000	6.37000	,48700	.11260	11400	.45690	04520	.05770	70	
36.150	-14.000	6.37000	01064	. 11590	10010	39190	04120	.050	00	
36.100	-12.000	6.37000	.49130	.11780	08170	.32650	03400	.04510	010	
20.00	-10.000	•	04/84	01611.	05170	.26130	-, 02690	.03860	350	
36.040	000.00	37000	. 48530	0012:	05850	0.50640	02010	150,	20	
30.050	-0.000	6.37000	. 48290	12170	02360	. 14880	01210		0	
35.010	1.000	5.3/000	02084	25.50	01310	09780	00540	.01650	200	
20.00 25.00	000.6-	5.57000	00000	0/101	0//00-	0,70	1	00000	200	
36.000	-1.000	6.37000	47830	מטמער ו	06100	27000	0.000	2000.	200	
36.000	000		.48220	. 12230	.00720	00420	06100.	8	0	
36.000	1.000	6.37000	.48180	. 12190	04400.	02100	00410	00330	330	
36.000	S. 000	6.37000	.48230	. 12230	.00390	04480	0.900	00710	710	
36.000	3.000	6.37000	47860	. 12140	00300	06710	.00870	01040	0.5	
36.010	4.00G	6.37000	.48130	.12150	01050	09180	0	01460	90	
36.020	6.000	6.37000	.48210	. 12100	02750	14380	01600	02310	210	
36.040	8.000	6.37000	.48480	. 11950		20160	. 02300	030	30	
36.070	10.000	6.37000	.48860	01611.		25980	.03200	036	370	
36.100	12.000	6.37000	.49020	.11730		32350	.03900	- 043	550	
36.140	14.000	6.37000	.48540	.11500		38830	.04700	04920	20	
35.190	16.000	6.37000	.47970	11180		45510	05140	05440	040	
50.300	000.02	6.37000	.45550	.10180		57280	.05150	06480	90	
	GRACIENI	- 00000.	. 0000	.00001	. 00062	02378	.00217	00390	065	

407 75)		07 0. 000. 000. 000.																									
VON +1 1 (14	DATA	STAB ELV-08 PUD-L RTANK		CSL	010	.05790		03840	.03190	0.7	. 02150	.01630	.01290	01600.	510	001	3.0	1590		300	010	280	350	0±0	1450	05430 00396)
(860041)	PARAMETRIC	6.000 .000 .000 .000																	0.00		03010				i	ii	
	ď	ALPHAH ELV-18 PUO-U	5.90	S S	03830	0.03840	02950	022 70	01560	03910	00680	0500	C3310	00160	.00070	.00210	.00380	06200.	00.00	01330	01930	04750.	.03370	00620.	01540.	04540. 6'.100.	
1.82.1		록 □8.~	-5.00/	Շ	04585	45630	32640	. 26100	. 20420	14710	. 12460	. 10070	.07530	.05060	.02520	.00590	02070	05.10	0440	07571	-, 19760	25970	32050	38340	44550	56940	
1 ATBBAT87			INTERVAL .	S.	09320	11650	08480	06570	04430	02820	02440	01880	01330	00830	.00240	02.100.	04000.	00116	00800	02870	04340	06530	08160	09750	11170	-,09430 -,00141	
15.6vg.1C1v			GRADIENT	8	. 10860	01511.	04021	. 12153	.12310	. 12270	. 12230	. 12220	. 12240	. 12210	.12260	. 12260	. 12270	12270	08120	12180	12140	. 12. 10	. 12)60	. 1 .60	.11370	. 10480	, , ,
CALLUMALLITYBIEXTIKIHIS.BVS.:CIV!! ATBBATBT		IN. 30	00. • 1	ರ	. 45520 0100	78270 01001	0,684	00884	. 48660	.48450	.48190	.48180	. 46430	07674	.47960	.48200	148150	7950	09284	48250	06484	. 48400	.48710	.48750	.48240	00010	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
CALLUMAL 1		. 0000. . 0000 . 190.7500	41/ 0 RN/L	⋖	•	6.37000	٠.			•	•	•	•	•	•		•	•	6.37000			•	•	•	•	6.37000 - 33000	
	ATA	XMRP ** YMRP ** ZMRP **	RUN NO.	BETA	-20.000	16.000		-10.000	-8.000	-6.000	-5.000	-4.000	-3.000	-2.000	-1.000	000	000.1	000. 1000.	000.4	6.000	8.000	10.000	12.000	14.000	16.000	20.000 GRADIENT	
	REFERENCE DATA	5500.0000 SQ.FT. 327.7800 IN. 2348.0000 IN.		O	36.310	35.130		36.070	36.040	36.020	36.010	36.000	38.000	35.990	35.990	35.990	35.990	35.990	36.000	36.010	36.040	36.060	36.100	36.140	36.190	36.300	
		SREF LREF BREF SCALE	•																								

1,

PAGE 41

_
JWAL 1146
J
CALL
ı
⋖
ă
FORCE
SOURCE
BULATED
Ą

PAGE 42	1 24 VON 41 1																		
_	(RG0042) (14	PARAMETRIC DATA	.000 STAB .000 ELV-08 .000 RUD-L		CSL . 00040	07100	. 00130	.00120	00100	00100	.00180	. 00210	.00180	.00160	.00160	.00070	. 00210	.00170	. 1000.
		PARA	BETA	5.00	CLN .00320	.00270	.00230	. 00270	00250	01200	.00180	04000.	06000.	.00110	00010	04000	00070	00040	00006
	37 728.1		28. 17.05.	-5.00/	CY 00200	00110	00100	00000.	00500.	00200	.00610	01040	01800.	00880	.01270	.01500	.01970	01490	. 00047
.1146)	VII ATBGATE			IT INTERVAL	CLM	17570	14130	. 10860	05140	04850	07220	08680	10400	10850	13126	14750	20260	27090	01691
CAII C UMAL	H15.6V9.1C1			GRADIENT	CD . 14220	11980	11050	10890	טיייין.	.13810	. 16660	.21490	.27910	.35830	01484.	. 50690	. 58680	.65580	00324
SOURCE FORCE DATA - CALL (JWAL1146	CAIIUWALII46(EXT)KIHI5.6V9.ICIVII AT96AT87 T28.I		IN. XC IN. ZC	RN/L00	CL 44690	26130	-,07140	77.50	09/87.	.65180	.81370	.96890	1.09750	1.20510	1.28760	1 . 32480	1.38040	1.43300	. 08605
O SOURCE FO	CA11UMAL		1339.9100 .0000 190.7500	42/ 0 RM	BETA .00000	. 00000	00000	00000.	00000	00000	.00000	، 20000	00000.	. 0 0000	0000°.	.0000	00000	00000	.00000
TABULATED		DATA	XYRRP	25 NO.	ALPHAN	-2.250	070		6.370	8.520	10.650	12.780	14.890	16.960	18.950	20.910	22.930	096. ₹	GRADIENT
DATE 15 NOV 75		REFERENCE DATA	SREF = 5500.0000 SO.FT. LREF = 327.7800 IN. BREF = 2348.00:0 IN. SCALE = .0460		36.030	36.000	35.990	35.980	35.990	36.000	36.030	36.090	36.179	36.290	36.410	36.530	35.670	36.810	

17	
Ş	
ij	
X TE	

OV 75	TABULATED	FD SOURCE	FORCE	DATA - CALL	11 C UMAL 1146	.46.)					PAGE
		CAIIU	4AL1146(1	EXTURING	CA11UHAL1146(EXT)K1H15.6V9.1C1V11	1 AT86AT87	128.1		(RG0043)	-	20 ₹
REFERENCE D'TA	, TA							ď	PARAMETRIC	DATA	
5500.2300 SO.FT. 327.7800 IN. 2348.0000 IN.	XMRP YMRP Z'ARP	. 1339.9100 .0000 . 190.7500	30 IN. XC 30 IN. ZC	000			- 2 E A	ALPHAM : ELV-18 : RUO-U : ITANK :	6.380 .000 25.000	STAB ELV-08 RUD-L RTANK	
	RUN NO.	43/ 0	RN/L	.00	GRADIENT	INTERVAL =	-5.00/	5.00			
ø	BETA	ALPHAM	ت ت		8	בר	Շ	Z	SS		
35.360	-20.000	6.37000	_	45020	.11500	07740	04949	06960		280	
36.240	-16.000		•	. 48480	. 12090	11260	. 52540	07210		260	
35, 180	-14.000			0106+.	. 12390	09690	. 45820	06830		570	
36.140	-12.000	6.37000		. +8790	. 12630	07570	. 39630	06220		02000	
36.090	-10.000			٠47900	.12510	04790	.31680	05280	•	04230	
35.050	-8.000			.47820	.12620	02190	04782.	014410	•	03480	
36.030	-6.000	•		.47580	. 12560	00930	. 19550	03430	•	02670	
36.020	000.4-			0+84	. 12550	00570	. 14430	- 02840	0.	0.610	
36.010	-3.000	۲,		.47710	. 12640	-,00030	0.11940	02820	70.	01550	
36.000	-2.000	וייו	•	.47760	.12540	. 00750	.09500	02410	•	06110	
36.000	-1.000	נא	•	47560	. 12700	01140	.07250	022EC	•	920	
36.000	000	•	•	50070	. 12750	.01150	.04860	02060	•	02+00	
36.000	•	6.37000	•	47780	. 12740	.01220	.02650	01940		020	
36.000	•	•	•	47770	.12710		.00130	01800		350	
36.600	3.000	6.37000	•	47790	. 12720		02250	01590		760	
36.000	•	•	•	47890	. 12530		05030	01210	01220	520	
35.020	•	6.37000	•	78×80	.12620		10470	00690		090	
36.040	•		•	48520	. 12790	03730	15870	00250		790	
36.060	•			.48290	. 12810	04700	<1280	. 00260		500	
36.090	•		•	48360	. 12800	06290	26960	.00500		970	
36.130	٠		•	47770	0.440.	07260	32780	08600.	04520	520	
36.170	16.000	6.37000	•	47270	. 12120	08830	38890	.01160	~.05030	030	
Se . 280	٠.	•	•	44450	.11120	06940	51600	.01280	06090	060	
()	GRADIENI	ocooo.	•	00011	. 00003	. 00030	02400	. 00186	0039	361	

ORIGINAL PAGE IS OF POOR QUALITY (RG0094) (14 NOV 75)

PAGE 44

CAIIUWALIIY6(EX1)KIHI5.6V9.ICIVI2 AT86AT87 728.1

	000. 000. 000.																								
PARAMETRIC DATA	6.380 51AB		CSL	.07560	.05830	04240	.03780	. 02650	.01890	00110.	. 00970	. 00550	.00150	00780	-,01110	01630	02420	03200	04020	04770	-,05490	06010	07160	00433))
PAR	ALPHAM = ELV-1B = RUD-U = 1 TANK	5.00	CLN	. 05960	05350	-,03610	02650	01730	01100	00780	00500	00110	.00130	00800	.01020	.01390	. 02090	. 02820	.03910	.04760	.05550	.05070	.06330	.00309	
	3 E E	-5.00/	ሪ	62040	42830	. 29070	. 22820	. 16210	. 11130	. 08320	. 05820	.02810	.00560	-,05060	07080	-, 10270	-,15850	21240	28230	34700	06+1+,-	48240	60350	02643	
		INTERVAL	מרא	1,10040	11670	08400	06230	03280	02480	0201u	01400	0.400	00350	00740	- 01340	02430	03780	05580	07670	09520	- 10900	. 12660	10930	7,000.	
		GRADIENT	8	.10580	11690	.11080	.11500	. 12250	. 12220	. 12200	. 12240	. 12250	. 12220	. 12230	. 12180	. 12130	. 12080	.:1950	. 11960	. 11780	.11450	. 11180	03001.	00008	
	IN. XC IN. XC IN. XC	ر = .00	4	15833 10002	49630	.48950	.48670	.48460	.48070	47990	.47660	.47930	47570	07674.	.47960	DL674.	.48330	07674.	.48590	.48750	.48650	.47600	.45060	-0000.	
	1339.9100 1 .0000 . 190.7500 1	44/ 0 RN/L	ALPHAM	6.37000	6.37000	6.37000	6.37000	6.37000	6.37000	6.37000	6.37000	6.37000	6.37000	6.37000	6.37000	6.37000	6. ∴7000	6.37000	5.37000	6.37000	6.37000	6.37000	6.37000	00000.	
DATA	YPRP = ZNRP =	RUN NO.	BETA	-20.000	-14.000	-12.000	-10.000	-6.000	000 · 1 -	-3.000	-2.000	-1.000	000.	S. 000	3.000	000°±	6.000	9.000	10.000	12.000	14.000	16.000	20.000	GRADIENT	
REFERENCE DATA	5500.0000 SQ.FT. 327.7800 IN. 2348.0000 IN.		o	36.330	36.160	36.070	36.040	36.020	36.000	36.000	35.990	35.990	35.990	35.990	36.000	36.000	36.020	36.040	36.070	36.110	36.150	36.200	36.310		
	SREF LREF BREF SCALE																								

11 NOV 75

(RG2045) A:86AT87 T28.1 CA11UHAL1146(EXT)K1H15.6V9.1C1

_
1146
CUMAL
_
3
•
<
DAT
FORCE
SOURCE
ATED
TABUL

DATE 15 NOV 75	NOV 75	TABULATE	ED SOURCE F	TABULATED SOURCE FORCE DATA - CAII (UMALII46	CA11 C UMAL1	146)				PAGE	ii ii
			CAI 10WA	CA11UWAL1146(EXT)K1H15.1V9.1C1	н15.1v9.1с1	AT86AT87 T28.1	128.1		(RC0046)	33 C 14 NOV	1 25 VC
	REFERENCE DATA	DATA						PAR	PARAMETRIC	DATA	
SREF LREF BREF SCALE	5500.0000 SO.FT 327.7800 IN. 2348.0000 IN.	YMRP	1339.9100 .0000 190.7500	IN. YC			P. P. P. P. P. P. P. P. P. P. P. P. P. P	PLPHAM ELV-1B * RUD-U =	6.380 .000 .000	STAB • ELV-OB • RUD-L • RTANK •	. 1.970 . 000 . 000 . 000
		FUN NO.	46/ 0 R	FN/L = .00		GRADIENT INTERVAL =	-5.00/	5.00			
	a	BETA	AL OHAW	ป	8	E C	Ç	Z	SS		
	36.260	-20.000	6.37000	00194	08401	12670	.50450	0.00	. 05950	950	
	36.130	- 14.000		01004.	11610	10570	31540	. 00650	50.	380	
	36.070	-12.000	ဖ်	0+98+	11790	08190	. 25900	.03779	03800	300	
	36.040	-10.063	ωí	.48100	11960	05330	. 20030	01010	031	0 ± 0	
	36.020	-8.000	ம் ப	C+964J	0.000.	03230	. 15190	. 01250	00920.	000	
	35.010	1 000		00//5	.16050	04010.1	05050	0/2/0.	0.50.0	D # C	
	35.990	-3.000	တ်	47340	11930	00280	05260	002500.	0510.	30	
	35.390	-2.000	œ.	.47460	. 11880		.03720	0.002.	.00780	780	
	35.990	-1.000	Ö.	.47330	.11930		.02000	00400	08+00.	+80	
	35.990	000.	<u>ن</u> و	06124	.11900		.00310	. 00200	. ຬຐຓຨ	020	
	12. 450	ر المروق مال م	6.33000	05574.	11890	.01430	01700	01000	00260	980	
	35.990	3.000	တ်	0.5074	11910	00460	04860	00450	00600	000	
	35.990	₹.000	ø.	00774.	0.1940		06610	00610	011	06	
	36.000	6.000	œ.	07774.	. 11920		10380	00910	01710	01.0	
	36.020	8.000	œ.	4.7890	. 11950		-,14900	00350	02440	07.	
	36.000	201	ပ	04484.	. 11920		19770	00520	031	00	
	36.070	16.000	o o	. 48580	11710		- 25540	00350	037	00/	
	35.100		٥	09484	01+11.		- 30950	00250	. +O · -	.60	
	MS: 140	16.000	<u>ن</u>	00484	.11170	13530	36780	00230	04650	350	
	35.040	23 000		.45530	08660.		- 48290	00320	055	530	
		GAADIENI	•	ימחחמי.	+.0000-	6/000.	01/00	UU I SB	0U SZB	SCH SCH	

14 NOV 75 PAGE PARAMETRIC DATA (RG001+7) ATESAT87 T28.1 TABULATED SOURCE FORCE DATA - CALL (UJALI146 . ៊ CA! IUMAL! 146 (EXT) KIHI5.1 REFERENCE DATA 15 NOV 75

-1.970 .000 STAB ELV-08 RTANK CSL 09280 03380 03380 03480 02430 011280 011280 00150 6.380 CLN 05370 04060 073600 073600 073600 07100 00100 00100 00100 00100 00100 00100 00100 00100 00100 001 ALPHAH = ELV-18 = 1TANK = -5.00/ 5.00 .39780 .23840 .15380 .15380 .11970 .05830 05830 05830 .03140 .00540 .00540 .00540 .00540 .10800 .18440 .11170 .11800 .18440 GPADIEN INTERVAL CLA 13990 1.13890 1.1080 1.0817 1.0819 1.0810 1.0810 1.0810 1.380 6.0000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.000 6.0 8 CL .46070 .48340 .48340 .47836 .47836 .47836 .46640 .46640 .4780 .46650 .46650 .46650 .4780 .4780 .4780 .4780 .4780 .4780 .4780 .4780 .4780 .4780 .4780 <u>zzz</u> RN/L 1 0018.811 .0000 1 1 000.7500 1 PEN NO. 5500.0000 SO.FT. 327.7800 IN. 2348.0000 IN. 386.030 385.030 386.030 386.030 386.030 385.990 385.90

1

5

DATE

The second secon

	(RGO)
	ATREATRY T28.1
C UPAL 1146)	ATR
TABULATED SOURCE FORCE DATA - CAII (UMALII46)	CALLEST THE CENTRE

		000																			
	PARAMETRIC DATA	00 RUG-U = 000 ITANK = 000		g's	.00120	. 00150	00120	02100.	00100	. 00880	.00160	06100.	01100	.00160	001.00.	.00120	06000.	.00240	.00280	.00003	
	PARAHET	RUD-L	5.00	טרא	.00210	. 90200	.00200	. 00250	.00230	04200.	. 00230	.00160	. 00150	06100·	.002-0	09000.	0.000.	000ti	0′:00	. 000013	
		25.E	-5.00/	ζ	.00100	00110	.00070	05100.	.00160	00300	. 00560	.00540	0.1600	. 0066 3	. 0036 ე	01410.	.01840	0.010.	01910.	7 1000.	
			INTERVAL .	ī,	00430	.01320	.03200	. 056:0	.07350	09540	.: 0736	14740	. 7860	.20130	.23870	.25450	. 28920	31016	. 32280	17600.	
101.0			GRADIENT	9	. 13820	.11620	.10670	. 10450	.10730	.11490	. 12760	. 15130	. 19330	. 25350	. 32520	.33860	.46270	53140	04855	00340	
CALLOMF, ILTOICEALTRI		, , , , , , , , , , , , , , , , , , ,	رد * .00	đ	39570	22320	- 04700	. 12190	. 28180	01174.	04109	74340	.87840	01656	1.09980	1.17320	91961	23230	1.26140	5.07842	
TANDI I KU		1339.9100 .0000 190.7500	48/ 0 RN/L	AF TA	00000	00000	00000	•													
	DATA	XIARP YARP	RUN NO.	At Putal	14.460	-2.23C	100	2.060	4.20	6.360	9.5.0	13,640	12.770	14,830	15,960	07.0	0.00	24.000	. אל היירי	LNSICKES	
	REFERENCE DATA	5500.0000 SD.FT. 327.7800 IN. 2348.0000 IN.		c	35.030	36.000	35.990	35.990	35.990	35.990	075	36.610	36.050	36.150	35.55	0L2 3E	087 92	26. 500	000.000	3	
		SREF LREF BREF SCALE																			

27 YON	TABUL ATE	D SOURCE FOR	ATED SOURCE FORCE DATA - CATI (UMAL:146	111 C UMAL:1	ή ξ)				A P €	
		CATIUMALI	CATIUMAL 1146 (EXT)K)	V9.1C1	AT30AT91 T28.1	128.1		(RG0049)	/ON #1 0	K.
	•						PAR	PARAMETRIC DATA		
REFERENCE DATA	A1A							(•
5500.0000 SQ.FT. 327.7830 IN. 2348.0000 IN.	dewit	1 339.9100 1 0000. 1 190.7500	N. XC IN. YC			BETA RUD-L RTANK	NK INC	. 000 TANK	• •	
	S NO	49/ 0 RN/L	را. • .00	(SRADIENT	INTERVAL =	-5.00/	5.00			
Ċ			ā	8		Շ		CSL		
1 k	14.77		40250	. 14230		00030	C4500.	03100		
000.45	יים יים יים יים יים יים יים יים יים יים		22720	. 12020		00110		200		
בפטייני בפטייני	007.1		05140	.11020		.00060				
060 9	2.060		. 12130	07701.		00030		2000		
35, 293	4.210		. 28220	08011.		2000.		200		
35,990	6.360		ロナロナエ・	01811.		5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		00.00		
35,990	8.510		. 50460	17130				05:00		
36.020	10.6+0		0/11/	0840.		0000		01100		
ა5.076	12.730		04688.	. 15780				08100		
36.150	14.830		1.00690	00/42.		00000		00150		
35. 260	16.950		1.10950	000.00		37,000		00000		
36 370	13.930		1.19250	06.60		0.4.0		00110		
36.490	20.930		1.20900	000		200		00210		
36.610	23.010		1.24880	50.40.		20.00		. 00250		
36.720	20.050	00000	015/5.1	00000 -	01086	. 00025		-,00000		
	21045		n							

ORIGINAL PAGE IS OF POOR QUALITY

SPEF SCALE			CA110P1L	CALIUPALITAG(EXTIKIHIS. I	15.1 C1	ATSCATE	1.88.1		(860050)		ACN NI I	75
SREF LREF BREF SCALE												
SPEF SCALE	REFERENCE CATA	ATA						PAR	PARAMETRIC	DATA		
	9500.0000 50.FT. 327.7800 IN. 2348.0030 IN. .0400	XHRP YHRP ZHRP	;339,9100 ,0000 190,7500	IN. XC			₹ਜ਼±	ELV-18 -	6.389 .000 .000	STAB ELV-08 RTANK		-1.926 .000 .000
		RUN NO.	50/ 0 AN/L	١٨ • .00	GRADIENT INTERVAL	INTERVAL .	-5.00/	5.00				
	G	9E TA	ALPHAW	5	8	CLM	Շ	ر د د	S			
	36.200	-20.000	6. 3700C	47000	11990	13740	36770	04850	.05780	780		
	35.090	14,000	6.37000	78290	25.50	- 11350 - 08780	. 0.5900 0.5900	0000	0.040	200		
	36.050	-12.000		.48370	0-921.	05280	19610	.03270	03690	200		
	36.040	-10.000		.48150	. 12560	03;80	.14750	.02650	03140	041		
	36.020	-6.000	6.37000	.47180	. 12450	01200	. 11320	.02380	04540	O		
	36.05 56.05 56.05	20.0	5.57000	מוניים איניים	16350	. 00550	DEPART.	0/3/0	מבמבמ.	2 5		
	36.000	-3.000	6.37000	46390	12200	03020	04300	00010	5 0	00		
	35.990	-2.000	6.37000	.46510	12140	04000	08830	006:70	00.	90		
	35.990	-1.000	6.37000	.46630	12140	04250	06910	.00360	02+00.	150		
	35.930	000.	6.37000	06, yy.	. 12150	06440	.00+50	96000.	00.	07		
	تر: 199	000.1	6.37000	و ياني ياني	12170	04150	06300 · -	01000-		90		
	36.000	3.000	6.37000	7 C 3	02221	04150	02/20	00000	000340	2 5		
	000 9£	P. 000	6 37000	36884.	. 12190	.02610	05050	01,320		08		
	26.010	9.000		3/694	. 12290	.00823	07700	01910		730		
	36.020	9. COG		.47360	. 12480	01150	10730	02 370	02340	20.0		
	36.040	10.000	6.37000	47210	. 12580	03160	14030	02380	02850	350		
	36.060	12 000	6.27000	.47780	. 12603	05390	-, 17660	03340	03360	260		
	36.680	000 · ≯1	€.37000	0618h.	12490	07380	21440	03790	033330	330		
	36.110	16.00c	6.37000	.47960	. 12360	10690	25610	04210	04350	350		
	36.180	20.000		.46300	.11530	13600	35040	0.6.310	05370	370		
		CRADIEN	000cg.	00008	± 000 ·	00033	0133	0031p	0035-	Ţ,		

DATE 15	DATE 15 NOV 75	TABULATED	D SOUPLE FORCE DATA		- CAII (UMALII46	94				•	PAGE 53	
			CALIUMALI	CALIUMALII467EXTIKIH15.179.1CI	5.179.101	A190ATS1 T28.1	128.1		(RG0051)	_	14 NOV 75	_
	REFFRENCE DATA	ATA						PAG	PARAMETAIC	UATA		
375 186 186 186	5500.0000 SO.FT. 327.7300 IN. 2348.0300 IN.	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0000 0000 1000 1000 1000	7. X. X. X. X. X. X. X. X. X. X. X. X. X.			ALV RUD TA	ALPHAH - ELV-18 - RUD-U - ITANK -	6.380 .000 .000	STAB ELV-08 ** RUD-L RTANK **	2.000 000 000 000	0000
		RUY NO.	SIV 0 PN/L	اد • .00	GRADIENT	INTERVAL .	-5.00	€.00				
	•	4 5 T. A	PHALL	ā	g	10	ò	טרא	15			
	36.≥70	000.0	6.37000	.45300	. 1 : 120	11.290	.50310	01330		. P664C		
	36.163	•	6.37000	05864.	1.620	- 11420	57 97 5	00960		0.00		
	36.110	*	•	49150 00101	0000	09620	00000 00000 00000 00000		•	04670		
	050.05 050.05	000.01-	6.37000	01684	12180	- 0-523	06. 502	. 00260	• •	03+80		
	36.000	-6.000		. 8120	12300	02663	. 15320	.00660	·	02830		
	36.010	-E. 633		.47830	. 12330	0:103	G¥0.1.	.00739	•	02220		
	36.000	000.4-		7.7530	12260	.0(1273	. 07330	. 0065 0	0.01550	550		
	35.000	000.11	5 37000 37000	147550	08001	. 00945 0.665	03630	0.3500	200	00820		
	2000 1000 1000 1000 1000 1000 1000 1000	200	, ~;	01117	13290	.02183	.01763	.00310		.00400		
	35.900	60		06264.	. 1.2280	. 02:20	.00353	0.100		.001.30		
	35 250	000	6.37000 8.37000	147630 02474	0.15	C 70.00	- 01577	0.0006.0	00550	550 550		
	36.000	1 . U		038.74	2580	060.0	- 051:3	00160	00600	900		
	36.000	, 000		05664.	. 1.2320	.00+00	06913	00300	31220	220		
	36.010	6.000		0164	. 12320	0:100	10933	0: 500 -	<u>.</u> ا	086		
	35.030	g.000	5 37000	0018h	1,2240	a255a	(715)	-,003-0	90.	.02550		
	36.050	10.000		. 48180	1.2180	05073	AC423	. 0011		.03540		
	35.080	12.00€	6.37060	.4838n	09011	06770	5.65973			200		
	36 . 10	000.4		02684	01/:1:	03250	24/18.		 	04650		
	S. C. S. S. S. S. S. S. S. S. S. S. S. S. S.	200	3.57050	05185	00011	0.20.1	C 500 3		'	.06160		
	20.6	GPADIENT		. 00003	4000c.	62000	01773	00180	•	00346		

## \$500_0000 \$0.FT. XPRP = 1339_9100 IN. XC ## \$27.7900 IN. YPRP = 190_7500 IN. YC ## \$27.7900 IN. ZPRP = 190_7500 IN. ZC ## \$2348_0000 IN. ZPRP = 190_7500 IN. ZC ## \$27.7900 IN. ZPRP = 190_7500 IN. ZC ## \$27.7000 IN. ZC	DATE 15 NOV 75	TABULATE	TED SOURCE FORCE DATA - CAII (UMALII46 CAIIUMALII46(EXI)KIHI5.6V9.1C1	OURCE FORCE DATA - CAII (UMAL CAIIUMALII%6(EXI)KIHI5.6V9.ICI	111 (UMAL!	146) AT90AT91 T28.1	128.1		(860052)	PAGE	# 5 50 20 20 20 20 20
FLY-TRP = 1339-9100 IN XC IN. ZHRP = 190.7500 IN XC RUN NO. 52/ 0 RN/L = .00 GRADIENT INTERVAL = -5.00/ 5.00 RUN-L = .000 RIUD-L =	REFERENCE	DATA						PAR	3AMETR1C	DATA	
## PROPRING SET 0 FINT #00 GRADIENT INTERVAL = -5.00/ 5.00 ## PROPRING S.37000	SREF = \$500.0000 SQ.FT LREF = 327.7800 IN. BREF = 2348.0000 IN. SCALE = .0400	•					A P	PHAM	6.380 .000 .000	STAB ELV-OB BRUD-L BRIANK	
BETA ALPHAM CL CD CLM CY CLN -20.000 6.37000 .45483 .1150 08290 .53300 03150 -14.000 6.37000 .49213 .11530 08920 .41140 02460 -12.000 6.37000 .49310 .11580 08520 .29460 01940 -10.000 6.37000 .48910 .12180 05040 .29460 01140 -8.000 6.37000 .489410 .12280 03200 .17590 00140 -8.000 6.37000 .488410 .12430 00270 .08340 00160 -4.000 6.37000 .48040 .12430 .00030 .00160 00160 -5.000 6.37000 .48160 .12430 .00130 .00160 .00160 -1.000 6.37000 .48160 .1240 .0020 .00110 .00210 .00160 -1.000 6.37000 .48080 .12460 .0020 .002		RUN NO.	6	#	GRADIENT		-5.00/	5.00			
-16.000 6.37000 .47930 .1153008920 .4114002920014400 6.37000 .49030 .1179003580 .350700292001140029200114002920011400292001140029200114002920011400114002920011400	36.290		ALPHAW 5.37000	CL . 45483	_	CLM 08290	CY 53300	CLN -,03150	CSL	530	
-14.000	36.170		6.37000	.47930	11530	08920	05115	02920		100	
-10.000 6.37000 .48910 .1216005040 .2281001140 .0026003200 .175900056003200 .175900056003200 .175900056000200 6.37000 .48390 .1229000270 .08340 .0003000140 .12430 .00030 .0	35.130		6.37000 6.37000	02064. 01364.	.11790	03580 06520	. 25070	02460	5.5	880 260	
-8.000 6.37000 .48390 .1229003200 .175900056000160 .12280 .001460 .12290001460 .12290001460 .12290 .00160 .00130 .00130 .00270 .00270 .002340 .000130 .22.000 6.37000 .48040 .12430 .00030 .06240 .00130 .22.000 6.37000 .48040 .12430 .001480 .02250 .00110 .00160 .00270 .00210 .00270 .00270 .00110 .00110 .00270 .00210 .00270 .001480 .00270 .00110 .00270 .00270 .00270 .48010 .12450 .0129002900 .00270 .00330 .22.000 6.37000 .48520 .12450 .0019005900 .00230 .00270 .48520 .1224001980 .17340 .01010 .12240 .17340 .01010 .12240 .17340 .01010 .12240 .17340 .01010 .22290 .12240 .17340 .01240 .12240 .	35.060		6.37000	01684	12160	05040	. 22810	0.110	.03	480	
-6.000 6.37000 .48410 .1238001460 .1262000160 .1262000160 .1262000160 .1262000160 .1262000160 .00340 .00060 .1262000270 .00340 .00060 .00270 .00340 .00060 .12600 .12600 .00630 .004110 .00160 .12600 .12600 .00630 .004110 .00160 .12600 .12600 .00270 .00160 .12600 .01480 .02650 .00110 .00270 .12600 .01480 .02650 .00270 .00110 .22000 .01260 .02500 .00270 .12620 .01260 .01260 .02500 .00230 .12620 .01260 .01260 .02500 .00230 .12620 .01260 .01260 .01260 .01260 .01260 .01260 .01260 .01260 .01260 .01260 .01260 .01260 .01260 .01260 .01260 .01260 .01260 .01260 .01260 .17340 .01010 .12260 .12260 .01260 .17340 .17340 .01010 .12260 .12260 .12260 .02260 .12260 .02260 .12260 .12260 .12260 .02260 .12260	36.030		6.37000	48390	. 12290	03200	17590	00560	8	850	
-3.000 6.37000 .48040 .12420 .00630 .06240 .00150 .22.000 6.37000 .49160 .12400 .00630 .04110 .00160 .22.000 6.37000 .49160 .12400 .01350 .04110 .00110 .00160 .22.000 6.37000 .49080 .12400 .01290 .00110 .00270 .00210 .22.000 6.37000 .49080 .12420 .01100 .02500 .00330 .22.000 6.37000 .49220 .12420 .00110 .02300 .00430 6.000 6.37000 .49220 .12420 .00100 .02300 .00430 6.37000 .49220 .12240 .01290 .17340 .01010 10.000 6.37000 .49220 .12240 .01290 .01240 .17340 .01010 12.000 6.37000 .49220 .12240 .03240 .17340 .01010 12.000 6.37000 .49220 .12240 .03240 .17340 .01010 .22200 .00430 6.3000 6.37000 .49220 .11330 .09430 .22200 .00230 .22200 .00430 6.37000 .49220 .11330 .09430 .22200 .03370 .22200 .003370 .22200 .003370 .22200 .00430 6.37000 .49220 .11330 .09430 .22200 .003370 .22200 .003370 .22200 .00430 6.37000 .49220 .11330 .09830 .40570 .033320 .40570 .0003	35.020			01+84.	12380	01460	12620	00160	9.5	160	
-2.000 6.37000 .49160 .12400 .00630 .04110 .00160 .00210 .00010 6.37000 .47990 .12380 .01480 .02650 .00210 .00210 .00010 6.37000 .48020 .12440 .01350 .00110 .00330 .00330 .2.050 6.37000 .48620 .12420 .01290 -02590 .00330 .48020 .12420 .00100 -02590 .00330 .48020 .12420 .00100 -02590 .00430 .00430 6.37000 .48620 .12420 -01980 .17340 .01010 .00430 6.37000 .48620 .12240 -01980 .17340 .01010 10.000 6.37000 .48620 .12240 -03240 -17340 .01010 12.000 6.37000 .48620 .12240 -03240 -17340 .01010 12.000 6.37000 .48660 .11340 -08430 -28690 .03370 .48660 .11330 -08430 -40670 .03320 .40670 .03370 .48660 .11330 -08430 -40670 .03370 .03370 .48660 .11330 -08430 -40670 .03370 .03370 .48660 .11330 -08430 -40670 .03370 .03370 .00004	36.000		6.37000	04084	. 12430	06000.	06240	. 00130	50	160	
-1.000 6.37000 .47990 .12380 .011480 .02050 .00210 .00200 6.37000 .48520 .12440 .01350 .00160 .02700 .00330 .2.050 6.37000 .48620 .12420 .01160 .02700 .00330 .3.000 6.37000 .48620 .12420 .00100 .02900 .00330 .48620 .12450 .00100 .00430 .00430 6.000 6.37000 .48620 .12240 .00180 .17340 .01010 10.000 6.37000 .48620 .12240 .03240 .17340 .01010 12.000 6.37000 .48620 .12240 .03240 .17340 .01010 12.000 6.37000 .48620 .12240 .03240 .17340 .01010 12.000 6.37000 .48660 .11390 .08430 .237770 .02960 .11330 .08430 .134770 .02960 .11330 .08430 .140570 .03320 .49670 .00017 .00000 6.37000 .47470 .11330 .08430 .40670 .03320 .40670 .03370 .03370 .48660 .47470 .10580 .00840 .00711 .00000 6.37000 .47470 .10580 .08430 .10570 .03370 .03370 .00000 .00017 .00000 .00017 .000000	36.000		6.37000	.48160	.12400	.00630	.04110	.00160	8	780	
1.000 6.37000 .48:20 .12420 .01550 .00070 .00330 .25.00 6.37000 .48:20 .12420 .01460 .02700 .00330 .0003	36.000			47990	. 12380	01480	.02050	.00210	96.	0 1 1	
2.050 6.37000 .48080 .12420 .0129003900 .00330 .00330 .3.000 6.37000 .48290 .12420 .00110005900 .00550 .00550 .4.000 6.37000 .48270 .12450 .00110008130 .00430 .00430 .1240001980 .1.12990 .006430 .00640 .1224001980 .1.12990 .01010 .1224001980 .17340 .01010 .1224001980 .17340 .01010 .122400549022200 .01640 .122400549022200 .01640 .12260 .113400691022200 .01640 .12260 .1134002930 .234770 .02960 .113300843040570 .03320 .47470 .113300893040570 .03320 .47470 .10580 .00844051610 .03370	36.000		6.37000	48:20	12450	01460	02020 -	00310	38	300	
3.000 6.37000 .49290 .12450 .0010005900 .00550 .4.000 6.37000 .49290 .12450 .0010005900 .00550 .4.000 6.37000 .49270 .124300024001990 .17340 .000430 .27000 .49520 .122400199017340 .01010 .1224005490222900 .01640 .12240 .1224005490222900 .01640 .12260 .02540222900 .01640 .12260 .1224005490222900 .01640 .12260 .113900694026690 .02310 .12260 .113300693040670 .02360 .113300843040670 .03320 .47470 .113300893040670 .03320 .25100 .00017 .00000051610 .03370	36.000		6.37000	.48080	. 12420	.01290	03900	.00330	- 00	600	
4.000 6.37000 .48310 .12430 00470 08130 .00430 6.000 6.37000 .48270 .12400 01980 17340 .01010 8.000 6.37000 .48580 .12240 05490 17340 .01010 10.000 6.37000 .48720 .11990 05490 22900 .01640 12.000 6.37000 .48660 .11740 08430 34770 .02960 16,000 6.37000 .47470 .11330 08930 40570 .03320 20.000 6.37000 .47470 .10580 91610 .03370 6RADIENT .00000 .00017 .00003 .00003 .00003	36.000		6.37000	.49290	. 12450	.00100	05900	.00550	- 00	080	
6.000 6.37000 .48270 .124000198017990 .00640 8.000 6.37000 .48520 .122400324017340 .01010 10.000 6.37000 .48720 .122400549022900 .01640 12.000 6.37000 .48720 .119900691028690 .02310 14.000 6.37000 .48660 .117400843034770 .02960 26.000 6.37000 .47470 .113300893040670 .03320 20.000 6.37000 .45540 .10580 .0824051610 .03370	36.000		F. 37000	.48310	. 12430	00470	08130	.00430		370	
8.000	36.020		6.37000	.48270	. 12400	01980	- 17990	.00640		050	
10.000 6.37000 .48280 .16260 .01040 .01040 .01040 .01040 .01040 .01040 .02310 .02310 .000 6.37000 .48660 .11740 .08430 .34770 .02960 .03700 .47470 .1133008930 .40670 .03320 .00060 6.37000 .47470 .1133008930 .40670 .03370 .00070 .00070 .00070 .00070 .00070 .00070 .00070 .00070 .00070 .00070 .00070 .00070 .00070 .00070 .00070 .00070 .00070	36.030		5.37000	.48520	0.5540	03240	17340	01010	02	007	
14.000 6.37000 .48720 .119900591028630 02510 14.000 6.37000 .48660 .117400843034770 .02960 16.000 6.37000 .47470 .113300843040670 .03320 20.000 6.37000 .45540 .10580 .0824051610 .03370 6RADIENT .00000 .00017 .00000 .00017	36.050		5.5/000	DAGA.	יומטטו.	05500-	44900	04910.	US	000	
14.000 6.37000 .48650 .11.7400843034770 .06350 16,000 6.37000 .47470 .113300833040570 .03320 20.000 6.37000 .47540 .10580 .0824051610 .03370 6RADIENT .00000 .00017 .00003	36.090		6.37000	02/84	11990	05910	28630	02310	50.1	060	
10,000 - 10,000 - 1,00	30.160			מממאי.	0,44	. 08450	0//+9:-	. 06360		0.0	
GRADIENT 000000 14050 - 000001 000001 14050 - 000000 14050 000000 14050 000000 14050 000000 14050 000000 14050 000000 14050 000000 14050 000000 14050 000000 14050 000000 14050 000000 14050 0000000 14050 000000 14050 0000000 14050 0000000 14050 0000000 14050 0000000 14050 0000000 14050 0000000 14050 00000000 14050 0000000000	36.170			0/10/11	05511.	06830	0/001	05560		200	
	36.670	Ç	00000	71000	08000	0.5000 0.000	1.51610	0/55U.	9.5	180 351	

-
SOURCE
TABULATED
ħ
15 NOV

PAGE 53	191 T28.1 (RG0053) (14 NOV 75)	PARAMETRIC DATA	ALPHAW = 6.380 STAB = -1.920 ELV-1B = .000 ELV-08 = .000 RUD-U = .000 RUD-L = .000 ITANK = .000 RTANK = .000
TED SOURCE FORCE DATA - CAII (UMALI146)	CALIUMALII46(EXT)KIHI5.6V9.ICIVI2 AT90AT91 T28.I		= 1339.9100 IN. XC = .0000 IN. YC = 190.7500 IN. ZC
TABULATED		ITA	XMRP YMRP ZMPP
DATE 15 NOV 75		REFERENCE DATA	SREF = 5500.0000 SQ.FT. LREF = 327.7800 IN. BREF = 2348.0000 IN. SCALE = .0400

RCD-L RTANK		CSL	3550	7360	5510	5650	130	3810	910	5080	1600	150	590	0710	0460	3850	300	1850	06	3680	+610	5470	5300	7020	3340	1650
900		เรา	õ	Ċ	ĕ	ë	ó.	Ö	ö	ĕ	0.	Ö	ĕ	ĕ.	ŏ	ŏ	0.	0	9.	0	Õ	Ö	<u>.</u>	Ö	ĕ	Š
RUD-U .	5.00	CLN	08950	08080	06970	05300	04710	03450	02360	01510	01110	006F0	002 ⁻ 0	00110	.00670	01010	.01360	.01830	. 02690	.03650	016+0.	. 05120	.07180	. 38230	. 09370	02400.
S.	-5.00/	Շ	.63970	.50780	.43430	. 36420	. 29580	. 22990	.16700	.11350	.08810	.05880	.03010	.00710	02940	05700	07900	10830	16550	22370	6.2897 €	35790	42770	49910	62990	02799
	•																									
	INTERVAL	ي آ	07590	03480	09650	07750	06120	04270	02330	01483	00920	00430	.00320	. 00420	. 00250	.00120	00660	01650	03350	04993	07150	08410	09640	09400	08190	. 000 L
	GRADIENT																								.10480	
N. ZC			.45610	.49190	01864.	. 50050	.49620	00064.	.49230	.48510	. +8750	.48860	.48720	.48580	.48810	08584	.48580	04884.	.48860	06064	9370	0+16+.	0+364.	.48580	.45370	S1000.
190.7500 IN.	53/ 0 RN/L	•	ω̈́	ω.	ω.	ω.	œ.	ω̈	Ġ	Ġ	ω.	œ.	ώ.	œ.	œ.	œ.	ω̈	ω.	ω.	œ.	ø	ω.	œ.	œ.		•
- ddMZ	RUN NO.	BETA	-20.000	-16.000	-14.000	-12.000	-10.000	-8.000	-6.000	-4.000	-3.000	-2.000	-1.000	000	1.000	2.000	3 200	۴.000	6.000	8.000	10.000	12.000	14.000	16.000	20.030	GRADIENT
8.0000 IN.		ø	36.350	36.220	36.160	36.123	36.080	3E 050	36.620	36.010	36.000	36.000	36.000	36.000	36.000	36.000	36.000	36.010	36.020	36.0+0	36.070	36.110	36.160	36.210	36.330	

DEFINAL PAGE TO CE POOR QUALITY

đ	
PAGE	
Ճ	

TAGE 34	(RG0054) (14 NOV 75)	PARAMETRIC DATA	6.380 STAB = -1.920 .000 ELV-OB = .000 .000 RUD-L = .000 .000 RIANK = .000		750	_	0 .06500								0 .00580	•			.0 ~.01630		0 - 03340			005670			00431	
		Q.	ALPHAM = ELV-16 = RUD-U = 17ANK =	5.00	CLN	•			03270					00270	0+000	00500					•	•	-	•	•	. 06960	.0027	
	31 T28.1		₹ ₲₭二	-5.00/	Ç	.59550	. 46490	33420	.26910	.20710	15090	. 10020	.07430	.04920	.02570	05770	05080	07370	09990	-, 14930	20730	27010	33180	39710	46280	58440	02479	
1 94 1	VII ATGOATS			GRADIENT INTERVAL	CLM	07650	09560	0.020	-,06050	03680	02230	01050	00510	00000.	00470	.00570	.00120	00570	01410	02890	0.170	06350	07470	09100	09000	07990	00024	
- CA11 C CMAL1146	15.6v9.101			GRADIEN	8	.11260	0,1001	12150	.12310	. 12450	. 12390	. 12530	. 12470	. 12530	. 12530	12530	. 12560	. 12560	. 12500	. 12380	. 12410	. 12360	. 12130	. 11860	.11650	. 10830	+0000 ·	
	CAIIUWALII46(EXT)KIHI5.5V9.ICIVII AT90AT9I T28.I		N. 200	RN/L = .00	ರ	.45580	00164	06964	49510	.48830	.48930	. 48690	06484	.48790	09+8n	18660	.48760	.48720	.48600	.48750	0+16+.	.49230	.49330	.49350	. 48430	.45770	. 00008	
ED SUUNCE FUNCE UNIA	CA110WAL		1339.9100 .0000 190.7500	94.0 RN	ALPHAW	6.37000	6.37000	6.37000			•		•	•	6.37000			6.37000	6.37000	6.37000	6.37000	6.37000	6.37000	6.37000	6.37000		00000	
MONTH		ATA	XPRP = ZPRP =	RUN NO.	BETA	-20.000	-16.000	-12.000	-10.000	-8.000	-6.000	-4.900	-3.000	-2.000	-1.000	1,000	2.000	3.100	4.000	6.000	8.000	10.000	12.000	14.000	16.000	20.000	GRADIENT	
67 402		REFERENCE DATA	5500.0000 SQ.FT. 327.7800 IN. 2348.0000 IN.		ø	36.330	36.200	36.110	35.070	26.040	36.020	36.010	36.000	35.000	35.000	36.000	36 000	36.000	36.010	36.020	36.040	36.070	36.110	36.150	36.200	36.310		
אסייני שואט			SREF LREF BREF SCALE									•																

•
DATA
FORCE
SOURCE
TABULATED
k
Š

-1.920 .000 25.000 C 14 NOV 75 STAB ELV-C3 RUD-L RTANK PARAMETRIC DATA (RC0056) 6.380 .000 25.000 ALPHAH ELV-1B RUD-U 5.00 -5.00/ CA11UMAL1146(EX:)K1H15.6V9.1C1V11 AT90AT91 T28.1 GRADIENT INTERVAL 8 X X X X 1339.9100 IN. 7 .0000 IN. 7 190.7500 IN. 2 RN/C = 26/0 RUTH NO. HEFERENCE DATA 5500.0000 SQ.FT. 327.7800 IN. 2348.0000 IN. SREF LREF BREF SCALE

PAGE 57	14 NOV 75 1		2.000 .000 .000 .000																											
	(RG0057) (1'	IIC DATA	STAB ELV-08 RUD-L RTANK		CSL	. 06920	06380	.05880	. 05550 01670	0.3910	03210	02480	.01810	.01160	.00900	00+50	.00180	00230	00630	00960	01650	02280	-, 02950	33340	03610	. 04240	04750	05320	.05840	00320
	(RGO	PARAMETRIC	6.390		CLN					- 0540 - 04650									02420		01990		01550		,		08000	07100	•	1
	-		ALPHAM ELV-1B RUD-U	.007 5.00	ប		.53000(1											34570	39850	•	٠
	AT90AT91 T28.1			π rυ	Շ					0,755				01560. 04						•		-	•	1	'	•	·	•	,	
AL1146)	_			ENT INTERVAL	E J	0481			06930	0.000.1			•	•	•	·	•	•	•				•	'n	·	·	06870	07620	07430	ŗ
- CA11 (UMAL1146	1H15.6V9.1			GRADIENT	8	12040	. 12050	12150	12510	08761	12770	12840	. 12850	12940	. 12990	. 12980	. 13040	. 13000	. 12970	. 13010	. 12390	. 13010	. 12990	12940	12900	.12570	.12150	.11760	. 11250	.00016
	CA1 (UMAL 1146 (EXT) K1H15.6V9.1C		IN. YC	را ≖ .00	ರ	.45280	04994.	47840	.48550	14000. 00000	48000	04084	.47620	.47790	06184	48000	.48170	.48160	.48020	.48130	.47910	47970	48400	.48530	0698h.	.47820	.47540	47110	045240	.00056
ED SOURCE FORCE DATA	CA1 I UMAL		1339.9100 .0000 190.7500	57/ 0 PN/L	ALPHAW	6.37000		٠	•	5.37000		•	•		•	•			•	•		•					6.37000	6.37000	.37	•
TABULATED		DATA	XMRP YMRP ZMRP	RGN NO.	BE TA	-20.000	-18.000	-16.000	14.000	10.00	-8.000	-6.000	-4.000	-≥.000	-1.000	000	1.000	2.000	3.000	• · 000	6.000	8.000	10.000	11.000	12.000	000 *1	16.000	18.000	20.000	GRAD1ENT
NOV 75		REFERENCE DATA	5500.0000 SQ.FT. 327.7800 IN. 2348.0000 IN.		3	36 330	36.270	35.210	36.173	36.090	'n	10		٦.	4									36.070	36.080	36.110	36.150	36.190	36.240	
DATE 15 NOV			SREF LREF BREF SCALE												-	9	(U	A	L	Ŋ	7	7								

.

	-
	π
	40
	• • • • • • • • • • • • • • • • • • • •
	-
	-
	a
	- 3
	_
	0
•	•
	4
•	
	_
_	_
•	- =
•	_
,	-
	·
	- 3
•	_
	"
	ζ
	- ::
	u
•	
•	a
•	_
•	•
	=
	٠
	-
	×
:	14
•	_
	ıc
	7
:	
:	
	_
,	-
	4
	3
	-
	=
	_
	-
	CALLIMAL LINE(FXT)KINIS GVG SCIVIL ATOMATOL

OV 75		-1.920 .000 25.000																										
58) (IM NOV 75	C DATA	STAB ELV-OB ERUD-L E			.08270	7230	06+9	.05800	.04870	4060	.03100	2290	1870	07410.	0370	.00650	0080	00340	00760	01270	02160	02960	03830	-,04600	05230	05980	07040	Ontak
(RG0058)	PARAMETRIC DATA	6.380 .000 .25.000		83														1			•		•					_
	à	ALPHAM = ELV-18 = RUD-U = 17ANK =	5.00	Z	-,09970	09960	06+60∵-	08590	07320	06080	-,04790	04120	03810	03500	.03150	02890	02550	02270	01920	01430	00630	0,000	.00930	01610.	.02770	. 7,5600	04170	. 00327
128.1		A 3 8 5	-5.00/	ò	. 66290	.54550	.48270	.41640	34400	.27870	.21370	. 16380	.13780	. 11180	. 08620	. 06400	.03390	0.009	01840	04760	- 10240	15590	21550	28160	34740	07:17.1	52450	02618
CALIUMALII46(EXTIKIHI5.6V9.4CIVII AT90AT91 T28.1			GRADIENT INTERVAL .	נרש	04600	08110	07990	06010	04010	02110	00610	. 00020	. 00590	01540.	01940	0.840	.01830	.01520	07700.	. 00130	01230	02140	04180	05320	06340	06360	06210	.00022
15.6V9.4CI			GRADIEN	8	.11890	. 12300	. 12370	. 12600	. 12710	. 12820	. 12890	.13010	. 13000	.13080	. 13090	. 1 3090	.13090	.13150	. 13080	. 13040	.13030	.13100	.13050	0.621.	.12560	12293	.11340	.00008
46(ЕХТ ЭКІН)		000 200 	00.	ಕ	.44680	.48510	05464	19480	04/84	01+8+.	. 48260	.48330	0.4797€	.48290	.48580	.48190	02484.	. +8690	. 13450	.48430	.48320	0+68+	. 48560	.48850	.48370	.47650	.45590	5-000.
411UMAL11		.0000 IN. .0000 IN. 190.7500 IN.	S FRV/L	ALPHAM	6.37000	6.37000	5.37603	37000	37000	37000	37000	37000	37000	37000	37000	37000	37000	37000	37000	37000	37000	37000	37000	37000	37000	37000	37000	20000
Ö		1339	58/ 0	₹	9	9	<u>ن</u>	6	က်	œ.	ώ	ω.	ம்	9	ω	Ф	io.	ဖ	œ.	ف	ထ	ம்	é	Ġ	æ	Ġ	œ.	•
	ATA	XMRP YMRP ZMRP	PUN NO.	BETA	-20.000	-16.000	-14.000	-12.000	-19.000	-8.000	-6.000	-4.000	-3.000	-2.000	-1.000	. 000	1.000	8.00J	3.300	. 000 ·	6.000	8.000	000 01	12.000	14.000	16.000	20 000	GPACIENT
	REFERENCE DATA	5500.0000 50.FT. 327.7800 IN. 2348.0000 IN.		o	36.380	36.20	36.190	35.140	36.190	36.070	36.040	36.020	36.020	36.010	36.010	36.013	36.010	36.010	\$6.010	36.010	36.020	36.040	36.070	36.100	36.140	36.180	36.280	
		SREF LREF BRREF SCALF																										

PAGE	RG0059) (14 NOV 75
	(RG0059)
TABULATED SOURCE FORCE DATA - CAII (UMALII46)	CALLUMALLING(EXT)KIHIS.6V9.1CIVII AT90AT91 T28.1
DATE 15 NOV 75	

SREF ...
LREF ...
BREF ...
SCALE ...

OV 75	TABULATED		SOURCE FORCE DATA - CALL (UMALITHE	AII C UMALI	146)					PAGE	59
		CAI IUMAI	CAIIUMALII46(EXT)KIHI5.6V9.ICIVII AT90AT91	15.679.1017	11 AT90AT91	128.1		(RG0059)	J	14 NOV	, 27
REFERENCE DATA	ATA						PARA	PARAMETRIC	DATA		
5500.0000 SO.FT. 327.7800 IN. 2348.0000 IN.	XMRP * ZMRP	1339.9100 .0000 190.7500	Z X X X X X X X X X X X X X X X X X X X			ALPHAI ELV-16 RUD-U 1 TANK RUDI-L	ALPHAM = 6 ELV-18 = 25 RUD-U = 25 1 TANK = 25 RUDI-U = 25	5.000	STAB ELV-OB B RUO-L B RTANK B	- 22 S	-1.920 .000 25.000 25.000
	RUN NO.	59/ 0 RI	RN/L = .00	GRADIENT	INTERVAL =	-5.00/	5.00				
O	BETA	ALPHAW	ี่	8	υ U	გ	CLN	CSL			
36.400	-20.000	6.37000	01/11.	. 12930	02190	.67350	- 10470	. 08260	.60		
36.280	-16.000		47890	. 13320	05400	. 56540	10670	.07190	06		
36.220	-14.000	6.37000	.48390	.13350	05280	. 50500	10350	. 06540	÷ č		
36, 130	-10.000	6.37000	03084	13650	01150	37000	08430	0.640	0		
36.090	-8.000		47700	. 13590	02+00	.30240	07170	04100	00		
36.060	-6 .000		.47580	.13570	.01770	.23670	05790	.03130	30		
36.050	-5.000		.47530	. 13580	.01910	. 20590	05220	04750.	0		
36.040	-4.000	٠	.47620	. 13640	.01970	. 18010	04910	.02310	0		
36.030	-3.000	•	.47510	.13730	.02670	. 15500	04620	010.	D (
36.030	-2.000	٠	. 47690	.13770	.03400	. 13250	- 04430	01010	0 (C		
36.020	-1.000	•	.47580	.13760	04-10	. 10410	04080	01150	20		
35.050	000.	6.37000 6.37000	012/4.	3900	מלאט.	08380	03940 - 03740	00,00			
36.020	2.000		01+2+	13920	04180	03310	03460	00180	90		
36.020	3.000	6.37000	.47520	. 13880	. 03660	.00820	03210	00610	019		
36.020	4.000		.48010	.13900	. 02800	02400	02620	01110	0.1		
36.030	9 .000		.47330	. 13590	,01200	08390	01610	01980	90		
36.050	9.000	•	.473B0	.13780	02400.	13910	00930	02850	50		
36.080	10.000	•	.47520	. 13910	01070	-, 19570	00260	03660	90		
36.110	. 5 · 000	•	.48020	. 13900	02250	25700	.00520	04390	061		
36.140			.47460	. 13550	03400	31770	. 01280	•	20		
36.190		٠	0+1/4.	.13110	04530	38500	. 02080	05720	50		
36.280	20.000		09611.	. 12010	0.04690	- 50430	04820.	06950	ξ, F		
	GRADIENI	00000	51000.	. 00038	CB100.		. 00653		Ç		

TABULATED SOURCE FORCE DATA - CALL (UMALI148 :

CALLUMAL LING(EXT) KINIS. 6V9. 4CIVII AT90AT91 T28.1

(14 NOV 75)

(RG0060)

9

PAGE

	-1.970 0.03 0.03 0.03																								
PARAMETRIC DATA	6.380 STAB .000 ELV-OB .000 RUD-L		CSL	04690.	. 05990	.05240	024450	02750	.01300	.01390	.00960	. 00536	.00110	00+00-	00840	01290	01683	02570	- 03+20	04300	05110	05830	06430	07540	84400
PAR	ALPHAW = ELV-18 = RUD-U = ITANK =	5.00	CLN	02480	05710	04780	03690	01650	01030	00670	00410	00090	.00220	.00580	.00830	.01150	.01490	.02160	.03020	.04210	.05320	.06170	.06780	00420.	.00311
	186.	-5.00/	۲	07/74	08804.	34370	0.67.5.	. 15250	. 10400	.07620	. 05210	.02510	0.000	02740	04760	07520	10240	15490	21160	27760	34460	-,40750	46950	59130	02553
		I INTERVAL	CLM	09370	08950	0.74.0	0.850 -	023+0	01160	00190	.00260	06600'	04400.	. 00920	. 00680	00360	01000	02730	04270	06490	07720	08520	09070	07~90	5.000
		GRADIENT	CD	11720	.11930	. 12200	12330	. 12460	.12550	. 12530	. 12590	. 12610	. 12600	. 12600	. 12570	. 12560	. 12580	. 12460	. 12440	. 12420	. 12310	.11930	.11650	. 10800	. 00003
	17. 17. 17. 17. 17. 17. 17. 17. 17. 17.	RN/L ■ .00	رر دورغ	04064.	,4966ú	. 50050	, 400 to 0	, 48930	.48820	.48650	.48800	.48690	.48610	7306h.	D+CO+	. +8.+00	01684	.49150	00264.	.49510	.43560	.49620	. 48580	.45700	00006
	1339.9100 .0000 190.7500	60 / 0 RN	ALPHAW 6 27000		ம்	6.37000	o (c	9	9	ဖ်	ம்	ω	6.37000	ဖ်	ம்	œ.	œ ·	ı.	(a)	တ်	œ.	ம்	ø.	œ.	00000.
DATA	XYERP YTERP ZPERP	RUN NO.	BETA -20 000	-16.000	-14.000	-12.000	00.01	-6.000	-4.000	-3.000	-2.000	-1.000	000	1.000	2.000	3.000	. 000 1	9 .000	8.000	10.000	12.000	1.4.000	16.000	50.000	GRADIENT
REFERENCE DATA	5500.0000 SQ.FT. 327.7800 IN. 2348.0000 IN.		021 32	36.210	36.150	35.110	36.050	36.020	35.010	36.000	36.000	36.000	36.000	36.000	35.000	36.000	35.010	36.020	36.040	36.070	36.110	36.150	36.200	36.320	
	SREF LREF BREF SCALE																								

			CA110HAL	CA11UMAL1146(EXT)K1H15.6V9.4	15.679.4	AT83AT80 T28.	0 128.1		(RG0061)	_
	REFERENCE D	DATA						PAR	PARAMETRIC	DATA
SREF LREF BREF SCALE	5500.0000 SQ.FT. 327.7800 IN. 2348.0000 'N.	XMRP	1339.9100 .0000 190.7500	IN. YC			P. P. P. P. P. P. P. P. P. P. P. P. P. P	ALPHAM : ELV-18 : RUD-U :	6.380	STAB ELV-08 RUD-L RTANK
		RUN NO.	61/0 RA	RN/L = .00	GRADIENT	INTERVAL	-5.00/	5.00		
	0 0	BETA	ALPHAM	כר ייבריי	000	CLM	CY	CLN	CSL	Ş
	36.120	-16.000	6.37000	0,474.	10520	- 0540	05580.	08000	0,650.	200
	36.070	-14.000	6.37000	.48220	. 10823	04570	37710	.00060	.04350	200
	36.030	-12.000	6.37000	.48370	.11210	03010	.31020	04000.	.038	20
	35.930	-10.000	6.37000	05024	08411.	01520	.24690	.00120	.03290	8
	35.950	-6.000	6.38000	04574	11700	01500	13430	03700		200
	35.940	-4.000	6.38000	.46930	11750	0.8840	0.08810	01400	1 0.	8
	35.930	-3.000	6.38030	.46370	.11760	.03380	. 06590	.00420	110.	8
	35.930	-2.000	6.38000	0.46970	.11800	.03900	04450	. 00360	. 00690	8
	35.930	-1.000	6.38000	47120	11770	.03700	02420	. 00300	¥00.	9 6
	35.930	000.	6.38000	.46830	. 11850	.03600	.00260	. 00270	. 00080	e :
.• `	35.930	1.000	6.38000	01074	.11870	.03610	01720	. 00570	01200	D (
,	35.930	7. ECO	5. 38200 5. 38000	05591	0/8/11	03450.	1 05840	00200	600	2 0
•	35.940	£.000	6.38000	47340	11840	.02280	08330	01100	01250	
•	35.950	6.000	6.38000	.47310	.11680	.00950	13130	06000.	01810	0
 ,	35.970	B .000	6.38000	0+17+	11540	00610	18360	. 00230	02480	8
,	35.990	10.000	6.37000	07474	11400	02430	24180	. 003+0	03090	90
• ; ·	36.020	12.000	6.37000	05474.	.11170	03720	30470	. 90+50	03590	9
, .	36.060	14.000	6.37000	.47200	.10783	05260	36950	.00450	04030	20
ا ار آ	36.110	16.000	6.37000	020LM.	. 10340	06180	43430	08100	-,04530	30
] M	36.220	20 000	6.37000	01454.	. 09220	06500	- 56743	00570	-, 05430	30
K		GRADIENT	. 00000	. 00050	÷1006.	00073	02114	00039	-,003	30

K DATE 15 NOV

TABULATED SOURCE FORCE DATA - CAII (UMALII46)

CATHEMAL STARKEYTHEN GVO A

ATRIATRO

128

14 NC (RG0061)

9 15

-1.920 -050 -000 -000

٠ ٢ ٠

TOTAL STATE OF THE

è		
*		
۴		
ţ		

DATE 15 NOV	St von	TABULAT	ED SOURCE FO	TABULATED SOURCE FORCE DATA - CALL (UMALITHE :	A11 C UHALI	146)				PAGE)E 62
			CA1 IUMAL	CAI IUMAL I 146(EXT)KIH15.6V9.4	115.679.4	AT83AT80 T28.1	1 728.1		(R60062)) (14 NOV 75	1 26 VC
	REFERENCE DATA	MTA						PAF	PARAMETRIC	DATA	
SREF LREF BREF SCALE	5500.0000 SQ.FT. 327.7800 IN. 2348.0000 IN. .0400	SH2C	1339.9100 .0000 190.7500	IN. XC IN. YC			BELV PUC	BETA ELV-18 RUD-U	3.000 .000 3.000	STAB ELV-OB RUD-L RTANK	-1.920 .000 .000
		RUN NO.	62/ 0 FIN	FN/L = .00	GRADIENT	GRADIENT INTERVAL =	-5.00/	5.00			
	ø	ALPHAH	BETA	ರ	8	r U	Շ	Z			
	35.960	077.7-	00000	43090	13540	.25810	00330	. 00260	00100	00	
	35.940	-2.250	00000	24000	. 11400	.20060	00220	.00250		06	
	35.930	070		05640	.10530	. 16220	00150	.00290		0.	
	35.930	2.080		. 12510	.10380	.13100	0.000	.00290		90	
	35.930	4.230		29240	. 10820	.08770	04100.	. 00270		5	
	35.930	6.380		.47330	.11840	.03570	00460	. 00250		30	
	33.950	8.520		.64380	. 13390	. 01860	.00750	.00210		50	
	35.960	10.650		.79490	.16050	05270	.01240	.00170		30	
	36.020	12.780		.9+180	.20710	07520	.01600	.00150		80	
	36.110	14.890		1.06580	.27020	09660	.021:0	.00100		00	
	36.220	16.960		1.17330	.3 4430	10950	, 02230	. 00060		30	
	36 330	18.950		1.24170	0.41670	11830	.02270	.00100		r.O	
	36.450	20.910		1.25870	+8350	14570	. 02100	00030		50	
	36.570	22.940		1.30180	.55560	22660	. 02000	00080		50	
	36.690	₹.960		1.33970	.62530	32710	.01720	00140		80	
		GRADIENT		.08351	-, 00299	- 01894	65000	20000		ر	

TABULATED SOURCE FORCE DATA - CALL (UMALI146)

PAGE 14 NOV PARAMETRIC DATA (RG0063) AT83AT80 T28.1 CALLUMALIIVB(EXT)KIHI5.6V9.4 REFERENCE DATA

STAB E' V-0B R. J-L RTANK 5.380 .000 25.000 3.000 ALPHAM ELV-18 BUD-U XYX ZZZ . 1339.9100 1 10000 . 100.7500 . XMRP YMRP ZMRP 5500.0000 SQ.FT. 327.7800 IN. 2348.0000 IN. SREF LREF BREF SCALE

1.920 .000 25.000

Ł,

CSL 05510 05520 05520 05520 05520 011450 011 -5.00/ 5.00 CY 655430 51700 37490 37490 37680 11780 09580 07280 07 GRADIENT INTERVAL = CLM
- 03810
- 04300
- 06280
- 03810
- 06380
- 03820
- 04300
- 04300
- 04300
- 04300
- 04300
- 04300
- 04300
- 04300
- 04300
- 04300
- 04300
- 04300
- 04300
- 04300
- 04300
- 04300
- 04300
- 04300
- 04300
- 04300 CD ...10370 ...10370 ...113060 ...113060 ...113060 ...12080 ...120 8 P. F. ALPHAM
6.37000
6.37000
6.37000
6.37000
6.38000
6.38000
6.38000
6.38000
6.38000
6.38000
6.38000
6.38000
6.38000
6.38000 63/0 -16.000 -16.000 -16.000 -16.000 -16.000 -17.000 -1. FCN NO.

<u>.</u> J

大学 大学 大学 はなっますのは、これではないからなると

TABULATED SOURCE FORCE DATA - CALL (UMALILHS)

ۿٙ

PAGE

1 51 NON 11) .+	DATA	STAB = -1.920 ELV-0B = .000 RUD-L = .000 RTANK = .000			021	000	200	70	90	180	00	010	Disc	0-1	200	060	250	θğ	000	38	20	00,	83	0.7	.53	
. P60064	PARAMETRIC DATA	6.380 .000 3.000		150 CLN	_	01100 .05000 01150 .05000		_							06400 06400.		.0065900920			.01250 02480				0152004640	•	,
128.1		ALPHAM ELV-18 RUD-U	-5.00/ 5.00	ວ ໄ		07934.						_			02050			. 03550						_	. 58250	
+ AT83AT80 T28.1			GRADIENT INTERVAL .	E J	07720	07010	02950 -	01370	.00170	01+10	.02743	03000				.02830					02730			- 07960	0.08870	1000
CALLUMALLING(EXT)KI H15.12V9.4			.00 GRADIEN	ដ		10739				111830		•	•	0.000		1.12010				00711.				•	02260.	
JUAL 1 146 (EXT)		.9100 IN. XC .0000 IN. YC .7500 IN. ZC	RN/L .	To m	•		_			70 .45793				00000 00 00000 00									•		36 364. 06	0.000
CALIE		1339	0. 64/ 0			100 6.37000 100 5.37000		Ë.		9	6	300 6 .39000	6 (300 B. 38000	သ ထ	œ.		ω	Φ	000 6 38000	ယ	œ.	ú	6	മ	
	REFERENCE DATA	SO.FT. XMRP IN. YMRP IN. ZMRP	RUN NO.		260 -20.000	200	0 10	000 -10.000	370	S S	٠ ا	۵ رو د د د	0 2		030 1 026	930	25	٠ <u>٠</u>	950	970 8.000	000	030	070		5	CPACHENT
	REFERE	SAEF = 5500,0000 S LAEF = 327,7800 I BAEF = 2348,0000 I SCALE = .0400		Ø	χ.;	9 K	, X	%	2	i R	E P	នុំដ		z k	i Ki	35.	35.		35.	35.	32	.92	36.	36.	38	

TABULATED SOURCE FORCE DATA - CAII (UMALII46)	CALIUMALII45(EXT)KI HI5.12V9.4 AT93AT80 T28.1
DATE 15 NOV 75	

C 27 VCH #1)

(RG0065)

	0.90 0.00 0.00 0.00																		
C DATA	STAB ELV-08 BUD-L FYTANK E			1060	0600	0010	0600	150	1150	1130	0600	1120	0610	0710	080	0160	0+20)28C	. 00006
ARAMETRIC	3.000		153	ĕ	ĕ	ξ.	ĕ	ĕ	ŏ	ŏ.	ŏ.	ĕ	ວ.	ĕ	ŏ	ĕ	ĕ.	ŏ	9.
4	BETA ELV-18 PRUD-U PANK PANK	5.00	CLN	.00270	. 00280	.00320	.00290	.00310	.00330	.00280	. 00250	. 00170	. 60160	.00160	.00070	00020	- 0000	00110	₩0000.
	쮦픿뚕늗	-5.00/	5	0034€	00330	00060	.00160	.00060	. 00290	.00610	.00960	.01520	07710.	.01950	04060.	. 02230	01810	.01900	.00060
		:NTERVAL =	ĭ	.25430	. 19530	. 15750	. 12610	04463	03110	08280	05710	- , U8243	10450	11483	11780	14890	22580	31280	01888
		GRADIENT	8	. 13830	.11570	. 10690	.10570	.11090	. 12110	. 13700	. 16240	016.5.	. 26990	.34620	.41940	. 48230	. 55520	. 52120	00300
	IN. XC	ル・・.00	ರ	43280	24030	05640	12040	. 29110	06894	.64213	. 79100	.93670	1.05850	1.17500	1.23900	1.25470	1.29990	1.32930	.08348
	1339.9100 .0000 190.7500	65/ 0 RN/L	BE TA	00000	00000	00000	00000	00000	00000.	00000.	00000.	00000	00000	00000	00000	.00000	00000	. 00000	.00000
JATA	XPRP YPRP ZPRP	RUN NO.	ALPHAH	011.1	-2.250	070	2.080	4.230	6.380	8.520	10.650	12.780	14.890	16.960	18 950	20.910	22.940	3 €. 3 €0	GRADIENT
REFERENCE DATA	5560.0066 SQ.FT. 327.7800 IN. 2348.0006 IN. 0400			35.970															
	SREF LREF BREF SCALE														•	. •	7		, . .

PAGE GS	(RG0056) (14 NOV 75	PARAMETRIC DATA	6.380 STAB1.920 .000 ELV-08000 .000 RUD-L000 3.000 RTANK000		CSL .06000 .04050	011110 011110	03410	08230.	. 02050	0110.	.00760	.00080 .00080	00330	00630	01330	01990	026,0	03240	03830	04270	04770	 .05520 	. כיייי
	=	PARAM	ALT. 14W = 6. CV-18 = TANK = 3.	5.00	CLN 00860	91600	0140	06600	00570	00130	00010	00300	02.000	00000	00820	.01160	.01550	.01930	.02170	. 02100	01810.	00800	***
	128.1		¥w?≒	-5 .0/	51190 45790	.40030	. 23500	.20980	14820	.07360	0.960	. 00270	02350	-,04600	09650	14730	20450	26940	33620	39780	45700	- 58740	,
146)	AT83AT80 T28.1			GRADIENT INTERVAL	CLM 05110	04150	02510	03.00	02010.	.02680	.02960	. 02750	.02780	.02550	.01410	.00230	01500	03456	04750	06200	07370	- 06690	
AII (UWALI	415,1179,4			GRADIENT	.10010	010870	. 11340	.11510	115/0	11790	.11830	. 11920	11860	11850	11800	.11660	.: 1470	11400	.11:70	.10770	01401.	. 09380	
CE DATA - C.	CATIUWALII46(EXT)KI HI5.11V9.4		IN. YC	00. ≖ 1.	Cl. . 46940 . 47580	47640	7660	.47260	0/0/4,	.46830	.46720	.46820	04894	. 45 /US	, 46820	.47260	.47400	.47630	0 4424.	.47320	47010	15150	
LATED SOURCE FORCE DATA - CALL (UMALITYS	CA11UMAL1		1339.9100 1 .0000 1 190.7500 1	66/ 0 RN/L	ALPH.,W 6.37000 6.37000	6.37000	6.37000	6.38000	6.38000	6.38000	6.38000 5.38000	6.38000	6.28000	6.38000 6.38000	6.38000	6.380c0	6 .36000	6.37000	6.37000	6.3700C	6.37000	4.37000	
TAGULATE		ATA	XMRP = YMX X	RUN NO.	65.1A -20.000 -16.000	114,000	-10.000	-8.003	000.4-	-3.000	-2.000	000.	1.000) N	000.4	6.000	9 .000	10.000	12.000	000.51	16.000	20.000	
DATE 15 NOV 75		RCFERENCE DATA	SREF = 5500.0000 SQ.FT. LREF = 327.7800 IN. BREF = 2348.0070 IN. SCALE = .0407		0 36.260 36.130	36.080	36.000	35.970	35.940	35.930	35.930	35.930	35.930	35.830	35.940	35.950	35.976	3f .000	35.040	36.070	36.120	55.630	

TABULATED	
Б	
Š	
5	
DATE	

	CSL 05580 04550 04550 0300 0300 002980 002980 00300 00300 00300 00300 00300 00540 00540 00540 00540 00560	02820 03340 03790 05210
5.00	CLN 	00500 00510 00590 01610
-5.00/	56550 759330 759330 729330 73150 73150 70150	23080 29170 54810 01945
INTERVAL	CLM 05220 04950 04950 01850 01850 01850 01850 03350 03150 03150 03150 	02240 03750 05220 07640
GRADIENT	CD	.11510 .11130 .10600 .09270
8.	CL +6570 +8140 +8140 +8140 +8140 +7770 +7770 +7730 +6710 +6720 +6720 +6720 +6720 +6720 +6720 +6720 +6720 +6390 +6710	.47610 .47210 .47100 .45590
J/ 10 RN/L	ALPHAM 37000 377000 377000 377000 377000 377000 377000 377000 377000 377000 377000 377000 377000 377000 377000 377000 377000	5.37000 5.37000 5.37000 .00000
RUN NO. 67.	######################################	10.000 12.000 14.000 20.000 GRADIENT
_	35 95 95 95 95 95 95 95 95 95 95 95 95 95	35.390 36.020 36.210

1

SOUNCE FUNCE DATA - CALL (UMALITHS)
CATTUMALITYS(EXT)KIH; 5.1V9.1 AT83AT80 T28.1

	-1.920 .000 .000																										
PARAMETRIC DATA	6.383 STAB		CSL	.05630	04030	.03470	. 02890	. 02310	.01850	.01290	. 00950	.00680	.00450	.00100	00150	06+00	00730	01040	01540	02170	02730	03240	03580	C#1-#0" -	1.05020	00288	
PARA	ALTYAM = 6 ELV-18 = RUD-U = 3	5.00	CLN	03370	. 02830	.02610	. 02450	. 02210	.01900	01+10.	.01120	.00820	.00500	.00210	~.00060	00400	00720	01020	-,01480	01810	02010	02140	02320	02500	03160	00304	
	PROPERTY ALT	-5.00/	Շ	.54660	.33260	.27110	. 20690	. 15560	. 10980	.07320	.05340	.03580	00610.	.00430	01380	02710	04700	06530	10320	14850	20480	26640	32470	38770	-,50990	01696	
		GRADIENT INTERVAL .	CLA	07940	05280	03260	01400	.00470	.01890	.03030	.03680	.03860	04010	.03610	.03730	.03510	.03320	. 02880	.01700	00010	02350	04290	06300	07750	09480	-, 00044	
		GRADIENT	80	. 09760	11100	.11400	11490	.11500	. 11690	.11630	.11650	.11650	.11650	04911.	.11650	.11660	.11750	.11750	.11650	.11600	.11500	.11160	.10750	10400	. 08830	+1000.	
	N. XC N. YC N. YC	RN/L ■ .00	ರ	.47080	.48280	.48210	.47630	47310	46950	01191	0 4294.	.46520	. 46650	.46320	0+15+	. 46750	46430	.46920	.47090	47310	.47520	00+74.	014/4.	.47230	0+55+.	64000.	
	1339.91 UO .0000 190.7500	68/ 0 RN	ALPHAW	6.37000 6.37000			uÓ (6.38000	o o	io o	o i	o i	ဖ်	ယ်	φ.	io o	اف	ف	ٔ ف	Ö	ė	ώ.	œ.	ເວ	Ġ	•	
DATA	XMRP	RUN NO.	BETA	-20.000	-14.000	-12.000	-10.000	-8.000	-6.000	-4.000	-3.000	-2.000	-1.000	000	1.000	2.000	3.000	2000	000.0	7.900	10.000	12.000	14.000	18.000	20.000	GRADIENT	
REFERENCE DATA	5500.0000 SQ.FT. 327.7800 IN. 2348.0000 IN.		0	36.100	36.050	36.020	35.980	33.960	150.500 150.500	55.950	35.930	930.52	35.930	35.930	55.950	55.530	35.950	30.040	33.940	35.950	35.380	36.010	36.040	35.080	36.180		
	SPEF " LREF " BREF " SCALE "																										

(14 NOV 75)

(RG0058)

99

PAGE

į

_
TABULATED SOURCE FORCE DATA - CAII (UMALII46)
4TA - CA11
E FORCE DA
ATED SOURC
TABUL
DATE 15 NOV 75
DATE

26	ž Č		-1.920 .000 .000																							
PAGE	VON +1) (69	C DATA	STAB ELV-08 ELV-08 ERTANK		۔	.05080	03600	03190	2730	. מנאים	.01210	. 00930	0690	0400	.00150	0.00.1	00710	00880	01440	01990	02430	2800	03340	03680	04480	00267
	(RG00E9)	PARAMETRIC	6.380 .000 3.000		S																			_	_	
		Q.	ALPHAW = ELV-18 = 1TANK =	5.00	CLN	.07520	.05150	. 04500	.03870	. 036.6	01770	.0134	.0097	.0051	1100.	-,00340	0119	01580	02430	0319	03920	06440	0526	06040	07710	00420
	128.1		I TA	-5.00/	Շ	. 46500 05745	. 28420	.23160	17830	13490	. 06370	01840.	. 03550	.01830	.00570	00170	03690	05160	08580	12520	17230	21750	27090	32230	- 43060	01421
1146)	AT83AT80 T28.1			GRADIENT INTERVAL .	CLM	05990 	03970	02160	00270	.01560	04810	05050	.05210	.05360	.05160	02580	04/40	.04530	.03210	.01350	00760	02790	0+8+0	05830	07260	69029
CA11 (UMALI146	13.1			GRADIEN	8	.10230	.11230	06411.	. 11620	.11700	0.10.10	11610	.11560	.11520	.11570	11580	11580	11700	.11720	.11700	.11640	. 11390	06011.	. 10690	. 09530	01000.
1	CALIUMALII46(EXT)KIHIS.		1	رد00	<u>۲</u>	.46880	17930	.47810	47550	01074.	0,404.	45960	.45960	.46080	.46070	.46200	46380	46370	.46860	.47180	04264.	04264.	.47610	.46870	.45080	.00038
D SOURCE FORCE DATA	CALIUMALI		1339.9100 .0000 190.7500	69/ 0 RN/L	ALPHAM	6.37000	6.37000	6.37000	6.38000	6.38000	5.38000	6.38000	6.38000	6 .38000	6.38000	6.38000	6.38000	6. 38000	6.38000	6.38000	6.38000	6.37000	6.37000	6.37000	6.37000	00000.
TABULATED		ATA	XMRP TYMRP ZMRP	RCN NO.	BETA	-20.000	-14.000	-12.000	-10.000	-8.000	1 000	-3,000	-2.000	-1.000	000	000.1	000 ×	£.000	6.000	8.300	10.000	12.000	14.000	16.00L	20.000	GRADIENT
15 NOV 75		REFERENCE DATA	5500.0000 SQ.FT. 327.7800 IN. 2348.0000 IN.		o	36.170	36.030	36.000	35.980	35.960	35.940	35.930	35.930	35.920	35.929	35.920	35,930	35.930	35.940	35.950	35.970	36.000	36.020	36.060	36.140	
DATE 15			SREF LREF BREF SCALE																							

DATE 15 NOV 75	TABULATED	ED SOURCE FO	SOURCE FORCE DATA - CALL (UMALILHS	AII C UMALI	146)				PAGE 70
		CA11UMAL	CAT I UMAL I I 46 (EXT) KI	1.6	ATB3ATB0 T28.1	128.1		(RG0070) (1	1 14 NOV 75 1
REFERENCE DATA	DATA						PAR	PARAMETRIC DATA	
SREF = 5500.0000 SQ.FT. LREF = 327.7800 IN. BREF = 2348.0000 IN. SCALE = .0400	XMRP	1339.9100 .0000 190.7500	IN. XC IN. XC IN. XC			38.5	BETA RUD-L RTANK I	.000 RUD-U .000 ITANK	3.000
	RUN NO.	70/ C RN	RN/L = .00	GRADIENT	INTERVAL .	-5.00/	5.00		
σ	AL PHAW	BETA	ರ	9	CLM	Շ	CLN	CSL	
35.960	14.440		36230	. 3130	.00180	00320	. 00240	.00110	
35.930	-2.270		19700	. 11130	04110.	00233	.00210	. 00130	
35.920	080		02470	. 10270	.02480	00130	.00530	.00170	
35.920	2.070		. 13540	.10100	. 04220	.00150	. 00250	07100.	
35.920	4.210		. 28600	. 10480	.06140	ე6000.	n7500.	.06190	
35.920	6.360		04244	.11340	.07780	.00340	ანგებ.	.00110	
35.930	8.500		.59760	. 12600	. 09620	.00580	.00210	04100.	
35.950	10.640		. 73440	.14860	. 12520	.03880	. 00150	06100.	
36.000	12.760		.86720	. 18930	. 15560	.01810	07000.	04100.	
36.080	14.880		.97710	.24660	.17480	.01750	.00030	. 00240	
36.180	16.940		1.06660	.31420	.20700	01610	.00060	. 00290	
36.300	18.959		1.13900	.33690	. 23660	.02070	.00050	07100.	
36.400	20.910		1.13800	09444.	. 26020	.01930	. 00050	. 00 <i>22</i> 0	
36.510	22.960	00000	1.15810	.50670	.27190	.01730	. 00030	00300	
36.600	24.990		1.16440	. 55840	. 27650	.01340	. 00150	.00320	
	GRADIENT		. 07528	00293	.00693	¢¢000.	S0000.	50000.	

*

NOV 75	TABULATED		SOURCE FORCE DATA - CAII (UMALII46	111 CUMALI	146)				PAGE 71	
		CA110WAL	CATIUMALIT46(EXT)KI	1.64	AT70AT71	128.1		(RG0072) (14 NOV 75	~
REFERENCE DATA	ATA						PAR	PARAMETRIC DATA		
5500.0300 SQ.FT. 327.7800 IN. 2348.0000 IN.	XHRP YMRP #	1339.9100 .0000 190.7500	IN. YC			BETA RUG-L RTANK	4 1 X	.000 .000 .11ANK	0000	50
	RUN NO.	72/ 0 RN	RN/L = .00	GRADIENT	INTERVAL =	-5.00/	5.00			
o	ALPHAM	BETA	C	8	מרש	Շ	CLN	CSL		
35.980	14.450	00000.	36400	.14030	01160	00610	. 00250	0:000.		
35.950	-2.270	00000.	19880	11940	. 00220	00520	.00200	. 00080		
35.940	090	00000.	03230	.11070	. (3330	00400	. 00230	. 00160		
35.940	2.050	00000.	. 13220	.10890	. J3010	00370	. 00220	.00060		
35.940	4.210	00000.	. 29190	. 11300	0,020,	00200	. 00170	00100.		
35.940	6.360	00000.	06444.	.12:00	.07490	00180	. 00200	.00020		
35.940	8.500	00000.	.59300	. 13300	01660.	. 00050	.00180	.00110		
35.960	10.630	00000	.73010	. 15540	. 13290	00400.	06000.	07100.		
36.010	12.760	00000.	.85900	. 19570	. 16900	05,00.	00010	.00180		
35.100	088.	00000.	.97550	. 25500	. 187:0	.01100	00020	. 00250		
36.200	16.940	00000.	1.07470	. 32550	. 21830	.01230	00030	. 00260		
36.310	18.950	00000.	1.141.0	. 39550	. 24980	.01330	00020	04100		
36.420	20.910	00000	1.13720	45480	. 27210	.01230	00070	. 00:50		
36.520	22.950	00000.	1.14860	.51040	.28720	.01510	00080	.00310		
36.510	24.990	00000.	1.17310	.56140	. 29420	.01570	00070	.00379		
	GRADIENT	00000.	.07496	30301	.00701	£+000·	00006	.0000		

DATE 15 NOV 75

SREF LREF SPEF SPEF

ORIGINAL PAGE IN OF POOR QUALITY

DATE 15 NOV 75	ST 75	TABULATE	D SOURCE FO	TABLA ATED SOURCE FORCE DATA - CALL (UNAL 1146	AII C UMAL 1	146)				PAG
			CA11UHAL	CALIUMALII46/EXTIKIHIS.	15.1	AT70AT71 T28.1	128.1		(RG0073)	ON +1)
	REFERENCE DA	ATA						PAR	PARAMETRIC	DATA
SAEF LAEF BREF SCALE	5500,0000 SQ.FT. 327,7800 IN. 2348,0000 IN.	XYRRP = ZYRRP	1339,9100 ,0000 190,7500	IN. XC			ALP ELV 1TA	ALPHAM = ELV-18 = ITANK =	6.380 .000 .000	STAB EELV-OB ERTANK E
		RUN NO.	73/ D RN	RN/L = .00	GRADIENT	INTERVAL .	-5.00/	5.00		
	c	41.4	At DUAL!	δ	ξ	1	?	2	ũ	
	36, 150	-20.000	6.37000	46800	12040	- 09920	37940	04820	.061	30
	35.060	-16.000	6.37000	48350	12580	08420	.27070	04080	0 to .	00
	36.030	-14.000	6.37000	.48310	. 12730	06430	.22110	.03790	.04280	80
	36.010	-12.000	6.37000	06184.	. 12800	04420	. 18020	.03520	.036	70
	35.980	-10.000	6.38000	.47560	.12670	02530	. 13480	.03040	.02870	70
	35.970	-8.000	6.39000	0+174.	. 12720	01030	. 10450	. 02600	.05	10
	35.960	-6.000	6.38000	.46380	. 12670	. 00920	.07340	.01990	B.O.	50
	35.950	-4·000	6.38000	.46380	. 12680	. 02240	.04920	.01420	.01280	90
	35.050	-3.000		04864.	. 12550	. 32680	.03580	.01060	00600'	90
	35.940	-2.000	6.39000	.46380	. 12520	. 02580	.02550	.00750	.00730	30
	35.940	-1.000	6.38000	.46310	. 12410	. 02500	.01280	.00450	.00350	20
	35.940	000	6.38000	.46370	.12370	.02330	00130	01000.	06000.	06
	35.95	1.000	6 . 38000	.45930	04401.	. 02360	01190	00350	00190	90
	85.05 10.05	2.000	6.38 000	.45210	05.70	02450.	02180	00660	100.1	200
	30.040	3.000	6. 5800 0	00004.	0.500	מבושם.	03430	02010-	0//00:-	0/0
	35.950	2.000	5 .38000	0/995	12720	07/10.	0.0000	01370	- 01050	20.
	33.360	200	5.38000	מלונים -	00/21	00400	07070	00000.	01010.1	2 9
	35.970	1000	5. 38000 6. 38000	17170	09921	05600-	13720	- 04650	07770	200
	36.00	000	6.37000	47300	12530	03840	- 17580	03500	03360	09
	36.020	14.000	6.37000	.47660	12350	06040	21690	03840	04050	50
	36.050	16.000	6.37000	0.4074	.12220	08210	-,20070	04260	.04610	01
	36.130	20.000	6.37000	09844	.11510	09460	35520	05050	05550	50
		GRADIENT	00000	90000.	€0000.	00065	01180	- 00350	-,00292	26,

DATE 15 NOV 75	\$2 \$2	TABULAT	ATED SOURCE FORCE DATA - CALL (UMALILYS	RCE DATA - C.	AII C UMALI	146 ,				,	
			CAI IUMAL	CAI IUHAL I 146 (EXT)KIHIS. I	15.1	AT70AT71 T28.1	T28.1		(RG0074)	NOV +1 0	25.
	REFERENCE DATA	DATA						PAA	PARAMETRIC	DATA	
SAEF SALE	5500.0000 SQ.FT. 327.7800 IN. 2348.0000 IN.	ASHIZ ZHES	. 190.7500	1N. XC 1N. XC 1N. XC			A SE	ALPHAH = ELV-18 = ITANK =	2.080 .000 .000	STAB = ELV-08 = RTANK =	7
		RUN NO.	74/ 0 RN	RN7L00	GRADIENT	INTERVAL -	-5.00/	5.00			
	o	BETA		ಕ	8	מרא	Շ	CLN	ष्ठ		
	3.3	-20.000	O C	. 15130	.10210	04260	.37090	04970	084480	080	
	20.02	-15.000	08000	. 15140	10/60	0100	מין ניין	0.040.0	0.5560	2 -	
	36.000	-12.000	un	14510	05011.	03240	18160	. 03550	06+20.	00	
	35.980	-10.000		. 13830	.11090	.05210	14180	03130	. 02130	30	
	35.960	-8.000		. 13240	.11220	. 06410	. 10550	. 02500	.01640	0+0	
	55.950	-6.000		. 12880	.11280	.07400	.07620	. 02050	.016	550	
	56.95 6.95 6.95 6.95 6.95 6.95 6.95 6.95	-4.000	۸i۱	. 12370	.11270	. 08270	.05020	01450	.00830	330	
	الا الا الا	-3.000	i	0261	000	08580.	0.5550	00110.	00.00.	٠ ا	
	2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	ָייִר - מפריי	7. UBGGG	02/11.	0/111	0250	. מלאנים מאלינים	מפיים.	04500.	240	
	35.95	000	i (11560	10970	06060	00050	08000	00150	50	
	35.940	1.000	'n	11740	11020	01880	01260	00310	00110	10	
	35.9±0	2.000	u	01711.	.11080	. 08390	-, 02600	00680	00220	550	
	5. S	3.000		11900	.11150	.08210	03830	01000	- 00410	10	
	3.040	4.00G	v	12050	. 11200	05//0.	01160.	0750		יני היי	
	35.950	6.000	N	. 12640	.11270	. 06660	07860	02010	- 00380	980	
	35.960	8.000	'n	. 12950	. 11150	. 06210	- 10680	02600	01410	0	
	35.980	10.000	ij	. 13130	07111	.05400	14250	03100	0,610	250	
	36.000	12.000	'n	. 13220	11040	.04320	18290	03480	02450	50	
	36.020	14.000	വ	. 13960	.10750	.02370	22540	03850	02830	066	
	36.050	16.000	من	. 14290	. 10500	00140	26870	04260	03290	06.	
	36.120	20.000	'n	.14050	06660.	02330	36180	05070	0*1*0	0	
		GRADIENT	00000	00020	00011	00071	01259	00350	00188	88	

SREF ... LREF ... BREF ... SCALE ...

NOV 75	TABULATI	ED SOURCE	ATED SOURCE FORCE DATA - CALL (UMALITHE	CA11 (UMAL	1146)				2	PAGE 74
		CA110	CATIUMALII46(EXT)KIHIS.	1115.1	AT70AT71 T28.1	1 728.1		(R00075)	3) (14 NOV	. 27 VO
REFERENCE DATA	ITA.						PAR	PARAMETRIC DATA	DATA	
5500.0000 SQ.FT. 327.7800 IN. 2348.0000 IN.	XYRP YHRY ZHRP	1339.9100 .0000 190.7500	00 IN. XC 00 IN. YC 00 IN. ZC			복 급는	ALPHAM = ELV-1B = ITANK =	12.790 .000 .000	STAB = ELV-08 = RTANK =	-1.930 .000 .000
	PUN NO.	0 /57	RN/L00		GRADIENT INTERVAL	-5.00/	5.00			
	BETA	ALPHAW	ರ	8	E C	č	Z	8		
	-20.000		•	. 20200	-, 16050	404	.04220	.07	07520	
	-16.000			.21290	16750	. 28940	.03720	. 05	.05850	
	-14.000		0 .91210	.21300	14300	. 23640	.03470	. 05040	C+O	
	000.01			5.55	11730	19210	.03180	.04210	210	
	000.01-		03,840	21250	09620	14980	.02780		150	
	-6.000	12.78000	•	0/2120	07777	08390	. 05350		00/20	
	-4.000		•	.21180	06510	.05730	.01210		430	
	-3.000		•	.21120	06:50	.04290	.00880		.01070	
	-2.030			.21010	05650	.03130	.00580		810	
	-1.000	<u>.</u>		.20970	05000	.02070	.00280	00.	04400.	
	000.	ni (0 .92810	. 20950	05060	00350	00030		210	
	000.0			20830	05270	00210	00450		210	
35.030	3.000	يَ مِن		00000	- 05170	1.01660	- 00/60	- 00000	000	
	4.000	<u>~</u>	•	.21060	06930	03760	01410		500	
	6.000		•	.21020	07890	06310	-,02030	01010-	0+0	
	3.000	<u>~</u>		. 20950	~.08570	09560	02590	02600	009	
	10.000	<u>.</u>	0 .92330	. 20900	09770	13370	03040	03400	£00	
	12.000	<u>~</u>		. 20900	11470	17490	03420	04200	200	
	14.000	2	•	. 20640	- 13680	21970	03750	04950	950	
	16.000	<u>.</u>	•	.20290	16180	26450	04080	05680	680	
	000.000	-	•	05461.	14520	37440	04510	07110	110	
	מעשה	•	10100.	¥1000	uuu sa	/ + I I D	00329	00330	330	

TE 15 A	15 NOV 75	TABULATED		SOURCE FORCE DATA - CAII (UNALII46	- CA1	I C CHALI	(46.)				_	PAGE	27
			CALIUM	CAI IUMAL I 146 (EXT) KIHIS. 7V9.4	DKIHI5	٠.6٧٢.	AT70AT71 T28.1	128.1		(RG0077)	_	14 NOV 75	-
	REFERENCE DATA	ITA							PAR	PARAMETRIC	DATA		
	5500.0000 SQ.FT. 327.7800 IN. 2348.0000 IN.	XPRP YPRP ZPRP	1339.9100 ,0000 190.7500	N. XC IN. YC				E P	ALPHAM E ELV-18 = RUD-U = ITANK =	2.080 .000 .000 .000	STAB ELV-OB ERUD-L FRUD-L	7	0000 0000 0000
		RUN NO.	1 0 /11	RN/L *	8	GRADIENT	INTERVAL =	-5.00/	5.30				
ORIGINAL PAGE IS	A W W W W W W W W W W W W W W W W W W W	16.000	ALPHAM	14430 11430 11490 114860 113850 11880 11880 11880 11880 11881 11980 11881 11980 11881 11980 11881 11980 11881 11980		09080 09980 09910 10850 10850 11800 11	CLM - 00670 - 01200 - 01200 - 01130 - 01130 - 01130 - 01130 - 01130 - 01130 - 01120 -	CY 56620 35620 35620 35620 35600 36600 13440 13440 106330 10630 106330 106330 106330 106330 106330 106330 106330 106330 106330 106330 106330 106330 106330 106330 106330 106330 106330 106330 1	CLN - 05160 - 035160 - 03530 - 00330 - 00330 - 00330 - 00330 - 00330 - 00330 - 00330 - 00330 - 00330 - 00330 - 00330 - 00330 - 00330 - 00330 - 00350 - 00350		SL 06652 05480 05480 01890 01840 01840 01840 01840 01850 01850 00130 01130 01130 01130 01130 01130 01130 01130		
)))	·		· · ·	·))	1))		

DATE 15 NOV 75

SREF LREF BREF SCALI

OF POOR QUALI

TABULATED SOURCE FORCE DATA - CAII (UNALII46)

D SUURCE FURCE UNIA - CAII (UMALII4B)

PAGE

υ		-1.930 .000 .000	
CK AON +1) (8/00/12)	: DATA	STAB ELV-OB # RUO-L # RTANK #	
נאפסמו	PARAMETRIC DATA	6.380 .000 .000	
-:- -:	•	ALPHAM ELV-18 ELV-18 ERUD-U	-5.00/ 5.00
A1 /UA1 /1 128.1			GRADIENT INTERVAL # -5.00/ 5.00
CALLUMALL HOLEXIJKINID. /V9.4			
EXI		ទទទ	90.
DAME I TAB		1339.9100 IN. XC .0000 IN. YC 190.7500 IN. ZC	78/ 0 RN/L =
3		1339.9	9/ 0
			7
	TA.	XMRP YMRP ZMRP	RUN NO.
	REFERENCE DATA	5500.0030 SQ.FT. 327.7800 IN. 2348.0000 IN. .0400	
		SREF LREF JAREF SCALE	

	CSL	05940	05300	02440	03600	0250	02100	01450	01120	04/00	00450	08000	00330	00670	01030	01330	05020	06750	03530	04320	086+0	05640	06710	00353
•	CLN CLN (_	_	_	_	_	_	_	_	_	_	•	•	•	· -	•	`	, ~	· ~	•	· -	`	
	CY .56480	43030	.36580	29840	. 23680	. 18450	12940	.08200	.06060	.03970	.01870	00180	02500	04450	06+30	08690	13330	19070	24260	30400	36590	43040	55430	02103
!	CLM 03410	-,06170	06260	05740	04550	02860	01060	00160	. 00280	. 00210	00150	00170	00100	00070	DO44U	00930	02330	~.03580	04880	05620	05410	04880	03270	96000'-
	CD . 10880	11400	.11740	. 1950	12100	. 12390	. 12620	. 12730	12720	.12700	.12590	. 12590	. 12650	.12740	.12740	.12750	.12510	.12330	. 12090	.11820	11480	.11300	.10520	.00005
	CL .44890	47900	.48520	. +8690	.48050	47750	.47720	07074.	06074	975 ۲۰	01077	.47000	07174.	. 4.7450	.4730	.47640	47540	.47520	05824.	05a24	47240	.46260	, 42590	29000 .
	ALPHAW 6.37000	6 37000	6.37000	6.37000	6.37000	6.38000	6 .38000	6.38000	6.38000	6.38000	6.38000	6.38000	6.38000	6.38000	9 38000	6.38000	6.38000	6.38000	6.37000	6.37000	6.37000	6.37000	6.37000	00000.
	BETA -20.000	-16.000	-14.000	-12.000	-10.000	-8 COO	-5.000	7,000	-3.000	-5.000	-1.000	000.	1.000	2,000	3.000	۴.000	9 .000	8.100	10.000	12.000	14.000	16.00c	20.003	GRADIENT
	36.250	36.120	_	_	_	•	•			•	•	-	•	•	•	•	_	•			_		-	

Ē
SOURCE
TABULATED
k
Š
5
DATE

DATE 15	DATE 15 NOV 75	TABULATE	ED SOURCE FORCE DATA	•	CA11 (UMAL1146	1146 1				PAGE	77 3
			CA! IUMAL	CALLUMALLI 146 (EXT) KIH!5,7V9.4	415.779.4	AT70AT71 T28.1	T28.1		(RG0079)	70N 71) (6	27 V
	REFERENCE DATA	ATA						PAR	PARAMETRIC	DATA	
SREF LREF BREF SCALE	327.7800 IN. 2348.0000 IN.	XMRP #	1339.9100 .0000 190.7500				A 3 B F	ALPHAM 1 ELV-1B RUD-U ITANK	. 790 . 000 . 000 . 000	STAB # ELV-OB # RUO-L # RTANK #	ī
		RUN NO.	79/ 0 RN/L	رد ≖ .00	GRADIEN.	GRADIENT INTERVAL .	-5.00/	5.00			
	0	BETA	ALPHAM	7	8	E CLS	۲	CLN	S S		
	35.340	-16.000	12.78000	. 86210	19140	13810	.58170	03970	05880.	570 980	
	36.170	-14.000		05440	.20763	15610	.37630	03250	.05	05030	
	36.130	12.000	12.78000	. 93050	. 208 60	14870	00170	. 02500	0470	0450	
	36.070	000.8-		.93850	01115.	0.1.54.70	18610	01220	. 02750	750	
	36.050	-6.000		.93610	.21190	11170	.13560	-,00690	02040	0+0	
	36.040	-4.000		. 93730	. 21380	09580	08680.	00350	.01350	350	
	36.040	-3.000		. 93920	04412	09+90	. 06750	00250	01010	010	
	36.040	-5.000		061+6.	.21530	09170	04710	•	00700.	007	
	35.030	-1.000		93940	.21383	08810	.02930	- 00100	00000	0 0	
	36.030	000	12.78000	04.50 04.50 05.50	ביים מיים מיים מיים מיים	0881.0	00210	00000	00000	000	
	36.030	2.000 000		06146	.21430	09110	03230	04200.	. · 00	500	
	36.040	3.000		.94210	.21350	63740	05140	.00320	00890	990	
	36.040	£.000	٠.	94600	.21430	0.10440	07150	. 00430	01190	190	
	36.050	6 .000		0+\v\0	.21130	11780	11680	00810	01840	0 1 0 0	
	36.050	8.000	•	.93930	. 20840	01421	17400	05510.	05570	060	
	36.080	10.000		01156	. 20590	13590	23050	.02190	03410	0 (
	36.120	12.000	٠.	0+826	. 20390	14900	29250	02910	04230	590	
	36.160	14.000	٠.	.91890	. 20100	- 16020	35940	.03570	050 50	0.50	
	36.200	16.000	٠.	. 90590	.19710	16720	- , 42820	04240.	05820	820	
	36.320	20.000		. 85570	. 18650	- 13450	55750	. 04780	07300	07300	
		GRADIEN	00000.	canno.	canna	0004	ucuus	Renno.		הות	

*

SAEF = 5500.1 LREF = 5500.1 SCALE = 2348.	REFERENCE DATA 3500.0000 SQ.FT. 237.7800 IN. 237.7800 IN. 6400 35.980 35.980 35.990 35.990 35.990 35.990 35.990 35.990 35.990 35.990 35.990 35.990	TABULA XHRP ZHRP ZHRP ZHRP ZHRP 	ED SOURCE FO CALIUMAL 1339.9100 190.7500 190.7500 00000 00000 00000 00000 00000 00000 0000	CALIUMAL I 46 (FXT) KIHIS. 779.4 CALIUMAL I 146 (FXT) KIHIS. 779.4 39.9100 IN. XC 90.7500 IN. ZC 90.7500 IN. ZC 00000 - 42610 .14380 00000 - 12950 .1170 00000 - 12950 .1170 00000 .12950 .11680 00000 .65140 .16880 00000 .65140 .16890 00000 .75840 .16890 00000 .75840 .16890 00000 .16950 .21420 00000 .75840 .16890 00000 .128510 .18590 00000 .23770 .21420 00000 .23770 .21420 00000 .23770 .21420	## 1339.9100 IN. XC ## 1339.9100 IN. XC ## 190.7500 IN. ZC ## 20000 ## 2	GRADIENT INTERVAL = -5 GRADIENT INTERVAL = -5 1230 1230 1230 1230 1230 1230 1230 123			FARAMETRIC DATA .000 STAB .000 FLV-(.000 RTAM .000 RTAM .000 RTAM .00090 .00090 .00090 .00090 .00090 .00090 .00090 .00090 .00090 .00090 .00090	PAGE DATA DATA STAB	Y 75 1 4 75 1
	36.580	22.940 24.960 GRADIENT		1.29210 1.32390 1.08425	. 56070 . 52730 . 62730	22110 33490 33490	.01550 .01550 .01640	000030 - 000030 - 000030	. 00250 . 00350 . 00300		

DATE 15	NOV 75	TABULATED	S	DATA -	CAII (UMALII46	146)				•		
			CA110MAL	CA11UMAL1146(EXT)K1H15.7V9.4	15,779,4	AT70AT71 T28.1	128.1		(RG0081)	_	1: 404 75	_
	REFERENCE DATA	ATA						PAF	PARAMETRIC	DATA		
SREF LREF BPEF SCALE	5500.0005 SQ.FT. 727.7800 IN. 248.0000 IN.	XMRP = ZMRP =	1339,9100 .0000 190.7500	N.X. N.X. N.X. N.X.			1854 1854	ALPHAM = ELV-1B * RUD-U = ITANK =	8.080 .000 .25.000	STAB ELV-08 ERUD-L ERTANK	-1.930 .000 .25.000	0000
		PUN NO.	81/ 0 RN/L	٦٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠	GRADIENT	GRADIENT INTERVAL .	-5.00/	5.30				
	σ	BETA	ALPHAM	ಕ	8	טרא	Շ	N C	CSL			
	35.280	-20.000	2.08000 00000	14670	09740	03010	.62210	08110	.67320	250		
	36.100	-14.000	2.08000	. 15263	10430	. 03680	43050	- 06880	.05510	0.0		
	36.060	-12.000	2.38000	.14330	. 10620	.05150	.36580	0E130	5	7.0		
	36.020	-10.000	2. r8000	. 13970	.10890	.05930	.30350	05300	03980	380		
	36.000	-8.000	2.08000	. 13420	.11270	.07110	06042.	04530	.03180	08		
	35.980	-6.000	5.08000	. 13290	.11560	.07720	. 19280	03870	.02610	010		
C	35.960	-4.000	2.08000	. 12550	01711.	. 09530	. 13840	02096	01830	066		
P(O	35.530	-3.000	€.08000	0 + 5 0 1 .	0+711.	C1890.	.11430	02810	.01570	570		
E II	35.150	- 2 .000	2.080.0	10400	.11680	01060.	. 03450	02760	01210.	טי		
GT V	35.950	-1.000	2.08000	.12+80	.11673	.08840	02770	02880	<u>-</u>	63		
N. 0	35.950	000.	2.08000	. 12410	.11750	. 08820	.03960	02910	04800.	£0		
A	35.950	1.000	2.08000	.12580	117.0	. 08520	. n 3570	02660	.00550	550		
L R	35.950	2.00°	2.08000	. 12820	.11710	. 08210	.00730	02250	.00180	08		
, 1	35.950	3.000	2.08000	17310	.11790	0.07840	C1910	01930	00160	60		
<i>7</i> / 5	35.950	۴. نامان	2.08nd0	1.50,30	.11770	. 07230	- , 34 560	01690	JU510	0 0		
) (35.960	6.003	2.08000	. 13840	.11670	. 966.10	J+980∵-	01490	01100	00		
r Le	35.970	9 .000	2.08000	CZ 1 51 .	.:1360	.05550	15970	00300	01720	720		
. Y	35.990	10.000	2.08000	.13910	.1110	.04980	19520	00300	02390	390		
T T	36.020	12.000	2.08000	14170	.10200	060+0.	- 25030	.00170	03100	00		
i B	36.050	14.000	2.08000	00041.	10530	. 02830	3:050	.00900	03800	900		
	36.090	16.000	2.08000	.13930	.10270	. 02980	36940	.01210	04340	2+0		
	36 200	20.000	€.08030	. 12800	.09750	080+0,	49790	01610.	05420	50		
		GRACICIN	00000.	.007	60000.	00167	0834;	.00158	00093	.63		

Q

79

TREF LA.F BREI SCALE

	8
2	٠
-	
Š	4
	3
-	
5	
r C	;
5	į
3	
5	;
j	:
Š	:
ביינים הספינה בסינה הצים - כיווי כאצרווים	
١.	

PAGE 80

		CA11UF	CALIUMALII46(EXT)KIHI5,7VS.4	KIHI5,7VC.		AT70AT71 T28.1		(RG0082)	2) (14 NOV 75	1 57 VC
REFFRENCE DATA	ATA						PA	PARAMETRIC DATA	CATA	
5500.0000 SC.FT. 327.7867 IN 2348.0000 IN. 0400	XMRP TYMPP T	0000. 0000. 190.7500	0 17. XC 0 17. YC 0 1N. ZC			4.00.6.1	ALPHAM E ELV-18 # RUD-U	6.380 .700 .55.000	STAB ELV-OB B RUD-L RTANK	-1.930 .000 25.000
	RUN NO.	82/0	RN/L	.00 GRAD	GRADIENT INTERVAL	-5.00/	5.00			
O	BETA	ALPHAM	d	9	Σ	ò	Z	CSI		
36.290	-20.000	6.37000			-	.62310		.07	.07630	
36 175	-16.000		01874.	12090		49750		90.	416	
36.10	-14.000	ம்				01884.		•	05700	
35.670	-12.000	i d			0.07700	. 36510			0764	
36.030	-10.000	ம் (29480	05210		010	
36.000	000.9	no a	. 48070		01290	00000			. 03270	
055.55 079.75	- F	ģ		; -		13561			0.0	
35.960	-3.000		.47610	. 13230		1550		0	560	
35.960	-2 000	Ġ.		•		.09500		.01220	220	
35.950	-1.000	ιό		•		.07570		8.	.00920	
35.950	000.	Ġ.		•		0.05940		00.	.00590	
35.950	. 500 . 1	ώ		•		.03390	ľ	00.	.00160	
35.950	2.000	6.38000	01624.	.13230		.00860		00200	200	
000.00	3.000	ត់ ៤		•		01410	-	09500	090	
35.860	900.	<i>;</i> (07.084	•		0.03740		DUR'50	H50	
35.970	ο α	5.38000 6.38000		•	1.01950	08080	01070	0.0000	200	
000			-	0000					0 -	
36.000	000.01	o u	•			0.10.		01.60	٥ ر د د د	
35.050	14.000		•	00001		2005.			280	
35 100	16.000	i u				7627	•	000.00	200	
36.200	20.00		•			1.000		00000	ב ה ה ה ה	
	GRADIENT	,		. ¬		02166	•	- 0035	351	
)))	•			3	•) ;	1	

.

SREF **
LREF **
BREF **
SCALE **

PAGE 81	(RG0083) (14 NOV 75)	PARAMETRIC DATA
. 95	AT70AT71 T28.1	
TABULATED SOURCE FORCE DATA - CAII (UMALII46)	CALIUMALII' S(EXT)KIHI5, 7V9,4	ATA
DATE 15 NOV 75		REFERENCE DATA

-1.930 .000 25.000																										
STAB ELV-OB BRUD-L BRIANK			630	000	130	33 C	53J	710	090	380	090	810	510	250	- 1 0	460	810	- 1 0	850	530	300	120	960	710	180	315
12.790 .000 25.000		CSL	.07630	o.	ດດີ			8.	8	ē	Ö.	8.	8	8	8.	. 9		. 0	- 0	. O.	03	₹0. 1	₹.	- 05	.0.	. 00
ALPHAM 16 ELV-18 1 RUD-U 25	5.00	2,7	08030	07360	05720	06010	05060	04240	03670	03250	C308C	03030	03010	03230	02910	02610	- , 02460	02280	01930	01350	06790	00310	.00260	04200.	.01160	01100
A TABE	-5.00/	Շ	.64520	. 50620	.43490	. 35920	.30250	. 24390	04061.	.14580	. 12400	.10420	.08630	.07240	.04600	. 02450	.03210	01930	06500	11980	- 17460	23000	29410	35770	07784	02043
	GRADIENT INTERVAL .														07470											
	GRADIENT	8	19910	. 20980	.21170	. 21330	.21280	. 21450	04515.	.21770	.21813.	.21810	. 218 50	.21950	. 21950	.21980	.21890	.21910	.21690	.21550	. 21290	.21050	. 20830	. 20530	.19320	.0001
2 X X X X X X X X X X X X X X X X X X X	ال ≠ 000	ರ	.85900	. 90430	.91680	. 92610	. 93220	. 93930	. 93470	.93550	. 93730	04046	.93850	.93820	.94220	0244B.	. 9429U	02545.	.94170	050+6.	.93640	.92800	. 32100	.90700	.85570	.001C4
1339.9100 .0000 190.7500	83/ 0 RN/L	ALPHAW	12.77000																							00000
XMRP YMRP ZMRP	RUN NO.	BETA	-20,000	-16.00c	000. 41 -	-12.000	-10.000	-8.000	-6.000	C00 h-	-3.000	-0.000	-1.000	000.	1.000	2.000	3.000	4.000	6.020	£.000	10.303	:2.630	000 a	15.000	SC 220	GRAL! ENT
5500,0000 SQ.FT. 327,7900 IN. 2248,0000 IN.			36.390	260	210	160	120	060	070	090	050	36.050	36.040	36.040	36.040	36.040	36.040	36.040	36.050	36.060	36.080	36.100	35.140	36.180	36.280	

1

DATE 15 NOV 75

SREF **
LREF **
SPEF **
SCALE **

TABULATED SOURCE FORCE DATA - CAII (UMALII46)

ł

NOV 75	TABULATED	-	SOURCE FORCE DATA - CA11 (UMAL1146	ATT C UMALT	146)				PAGE 83
		CA11UHAL	CAI IUMAL I I46 (EXT) KIHI5. 7V9.4	15.779.4	AT70AT71 T28.1	128.1		(RG0085)	14 NOV 75
REFERENCE DATA	ITA						PAR	PARAMETRIC DATA	
5500.0000 SQ.FT. 327.7960 IN. 2348.0000 IN.	XME.2 YMRP = ZMRP = =	0000. 0000. 190.7500				A PER	ALPHAM = ELV-1B = RUD-U = ITAHX =	6.380 STAB .000 ELV-03 .000 RUD-L .000 RTANK	-1.930 .000 .25.000
	RUN NO.	85/ 0 RN	RN/L = .00	GRADIENT	INTERVAL .	-5.03/	5.00		
26.150 36.050 36.050 36.050 36.050 36.050 36.050 36.050 36.050 36.050 36.050 36.050 36.050 36.050 36.050	-26.00 -114.000 -1174.000 -1174.000 -1174.000 -1176.000	ALPHAM 6.37000 6.37000 6.37000 6.38000 6.38000 6.38000 6.38000 6.38000 6.38000 6.38000 6.38000 6.38000 6.38000 6.38000 6.37000 6.37000	CL 44933 44933 44983 447830 447830 447830 447830 447890 47781	CD	CLM	CY .59600 .46510 .33110 .26370 .21340 .10930 .08530 .08210 .02340	CCLN 1.059000 1.059000 1.059000 1.025300 1.01200 1.01200 1.005900 1.00590 1.00	CSL .07340 .06090 .06590 .01560 .01560 .01620 .01620 .01620 .01620 .01620 .0170 .01970 .01970 .01970 .01970 .01970 .01970 .01970 .01970 .01970 .01970	

TABULATED SOURCE FORCE DATA - CALL (UMALLINE)

£

PAGE

MOV 75)		-1.900 17.000 .000		
<u>*</u>	PARAMETRIC DATA	30 STAB 30 ELV-OB :		CSC
(RO	PARAMET	A 1000 -1881 -1900 000	5.00	CLN
128.1		BETA ELV-18 RUD-U 1TANK	-5.00/	
AT70AT71 T28.1			INTERVAL .	CLM 1424 1424 19170 24730 45770
15.779.4			GRADIENT	CD 114400 112460 11690 11690 114130 1
CATTUMAL1146(EXT)KIH15.7V9.4		 	٦٠ - 100 ال	CL - 33280 - 14280 - 24260 - 25900 - 40260 - 40260 - 75350 - 1 16380 - 1 16380 - 1 32330 - 1 38370 - 1 38370 - 1 38370 - 1 38370
CAI 1 UMAL		1339.9100 .0000 190.7500	857 0 RN/L	######################################
į	ATA	XMRP YM3P ZMRP	RUN NO.	ALPHAN 14, 14, 6 12, 250 10, 030 10, 030 11, 030 11, 030 11, 030 12, 030 18, 030 22, 030 24, 040 CRADIENT
	REFERENCE DATA	5500.0000 50.FT. 327.7800 IN. 2348.0000 IN.		25. 270 36. 270 36. 270 36. 270 36. 270 36. 270 36. 270 36. 270 36. 270 36. 270 36. 270 36. 270 36. 270 36. 270
		SREF LREF BREF SCALE		

Į.	TABULATED		SOURCE FORCE DATA - CAII (UMALII46	A11 CUMALI	146)				PAGE 85
		CA110M	CA11UWAL1146(EXT)K1H15.7V9.4	115.779.4	AT70AT71 T28.1	128.1		(RG0087)	(14 NOV 75)
REFEHENCE DATA	DATA						PARA	PARAMETRIC DATA	
10.0000 SQ.FT. 17.7800 IN. 18.0000 IN.	XMRP YMRP = ZMRP =	1339.91.0 .0000 .190.7500	00 IX. XC			PE PE	BETA # -23 ELV-18 # -23 RUD-U #	-23.000 STAB -23.000 ELV-OB .000 RUD-L .000 RTANK	B = 1.900
	RUN NO.	87/0	RN/L = .00	GRADIENT	GRADIENT INTERVAL *	-5.00/	5.00		
	A_PHAW			8	E C	۲	S C S	CSC	
35.970	74.40	00000	54860	0.551.	. 58650	00160	00130	08000	
	070		·	12180	. 55500	00270	.00220	08000	
	2.080		•	. 11790	.54470	-,00010	.00200	01100.	
	4.230			. 12080	.53060	00020	. 00200	. 00120	
	6.380			. 12770	. 50070	.00220	.00150	.00150	
	8.520			.13900	.47330	.00450	.00160	.00500	
	10.650			. 16060	04494	06900.	. 00100	.00180	
	12.780			.20140	.46020	. 03890	0,000.	. 00180	
	14.890			. 25920	.43830	06010	01000.	. 00220	
	16.960			. 32800	.41250	01410.	00090	.00300	
	18.950		_	.39950	. 38310	.01680	-, 00140	04100.	
	20.910			.45880	.33630	.01550	- 000090	00170	
	25.940		_	. 52560	. 25330	.01850	00120	. 00320	
	24.953			58640	. 14280	.01600	00090	. 00340	
	GRADIENT			00434	01107	00021	.0000	80000.	

SPEF LREF BREF SCALE ORIGINAL PAGE IS OF POOR QUALITY

_
LIMAL LINE
_
- CA1
DATA
FORCE.
TABLE ATED SCHOOL FORCE DATA - CALL
AT ATED
TAB
× 3,
DATE 15 NOV
E L
ă

SREF ... LREF ... BREF ... SCALE ...

NOV 75	TABULATED		SOURCE FORCE DATA - CALL (UMALILIE)	AII C UMALI	146)				PAGE	98
		CA110W	CA11UWAL1146(EX1)K1H15.7V9.4	15.779.4	AT7"AT71	128.1		(RG0088)	70N +1 0	. 65
REFERENCE DATA	ATA						PAR	PARAMETRIC DATA	DATA	
5500.0000 SQ.FT. 327.7800 IN. 2348.0000 IN. .0400	XMRP YMRP ZMRP =	1339.9100 .0000 190.7500	1N. XC 1N. XC 1N. ZC			జ묘독	BETA ELV-18 ELV-18 ELV-18 ITANK	0000.	STAB ELV-OB BRUD-L BTANK	00000
	PUN NO.	88/0	RN/L = .00	GRADIENT	INTERVAL -	-5.00/	5.00			
0	AL PHAH	BETA	טֿ	9	E IS	۲	CLN	CS		
35 980	033.3-	.00000		.14380	. 12210	00350	.00250	.00000	0	
35.950	-2 250	.0000°	21850	. 12240	06460.	00130		.0013	8	
35.940	270	00000.		.11310	.03260	-,000060		100.	0:	
35.940	2 080	. 00000		.11250	00570	.00070		. 0020	0	
35 340	1 ≥30	00000		.11840	04790	.00210		. 0023	õ	
35 950	6 380	. 00000		.13000	~.09520	.00320		.0019	0	
35 351	9 53n	00000.		14610	13260	00400.		.001	õ	
35.980	10 650	00000.		.17360	15200	.00890		. 0019	æ	
36 0+0	12 780	00000		. 22260	17210	.01190		.0023	g.	
35 135	14 830	00030		.28610	18930	.01550		. 0 024	ō	
36 243	16 989	60000.	_	.35160	19580	.01610		.002h	D	
36 360	C36 81	C0000		.43590	19910	.01780		. 001	0	
36 +80	S:6 02	<u> 0</u> 00000		.50150	- , 22340	.01930		. 002	0	
35 500	S5.930	C) C)		.57230	30050	.02030		.0026	0,	
35 720	24,950	ال ال	16++£ 1	.64170	40250	.01890		.0036	0.0	
	GPADIENT	ნიმე მ :	ಲಿಸ್ತಿಸ್ತ್ವರ -	00281	01940	.00061		.000	7	

PAGE 87	(14 NOV 75)	7.A	STAB = -4.000 ELV-0B = .000 RUD-L = .00C RTANK = .000																	
	(RG0089)	PARAMETRIC DATA	.000. .000. .000. .000.			.00110														.00005
		PAR	BETA ELV-18 RUD-U	5.00	CLN	. 00240	.00210	.00190	.00160	.00210	.00139	0000.	01000.	00130	00120	00170	00120	00220	-,00150	00008
	AT70AT71 T28.1		38.E	-5.00/	CY - 00270	00290	00000	0,000.	.00270	0.000.	. 30573	.00670	00010.	.01500	.01560	.01850	.01870	. 02030	.01830	.00065
.1146)	AT70AT			INTERVAL	CLM	24280	. 20230	. 17130	.13570	. 09683	. 05970	.03350	.01250	00790	~.01080	02650	04520	13080	25880	01776
CALL CUMAL	H15.7V9.4			GRADIENT	CD	1,2290	.11310	.11120	.11550	. 12500	. 13910	.15380	. 20990	.27080	.3+500	.41550	00084	54950	01519	003+6
SOURCE FORCE DATA - CALL (UMALITHE	CA11UWAL1146(EXT)K1H15.7V9.4		7 X X X X X X X X X X X X X X X X X X X	RN/L00	ָ האַ האַפּאָט	26750	07860	. 10020	06175.	145120	.61750	.76550	.91840	1.03840	1.14820	1.21520	1.22830	1.27510	1.30890	. 08443
	CALLUMAL		133°.9100 7000 190.7570	89/ 0 RN	BE TA	00000	00000.	00000.	00000	00000	00000.	. 00000	00000	00000	00000	.00000	.0000	.00000	00000.	. 30000
TABULATED)ATA	H B ddWX	RCN NO.	ALPHAH -4 440	-2.250	673	S.090	4.230	5.380	E. 520	10.050	12.780	14.690	16.960	18.950	20.910	22.940	£.963	GRADIENT
DATE 15 NOV 75		PEFEPENCE DATA	SPEF = 3500.000 SO.FT. LPEF = 327.7800 IN. BPEF = 2348.000 IN. SCALE = .0400		0 7	35.950	35.940	35.940	35.940	35.940	35.950	35.970	36.030	36.110	36 220	36 330	36.450	36.560	35 330	

,

SREF LREF = BREF = SCALE =

88

PAGE

		CA I I UMAI	CA11UMAL1146(EXT)K1H15.7V9.1	15.779.1	AT70AT71 T28.1	128.1		(RG0090)	_	14 NCV 75 1
REFERENCE DATA	ATA						PAR	PARAMETRIC DATA	DATA	
5500.0000 SQ.FT. 327.7800 IN. 2348.0000 IN.	XMRP = YMRP	1339.9100 .0000 190.7500	IN. YC			ALPHAI ELV-11 RUO-U 1TANK	3 H H H	80.000. 0000.	STAB ELV-OB ERUD-L ETANK	-2.000 .000 .000 .000
	RGN NO.	90 / 0 R	RN/€ # .00	GRADIENT	GRADIENT INTERVAL =	-5.00/	5.00			
0	BETA	AL PHAW	ۍ	00	H)	ပ်	S.L.	CSL		
36.230	-20.300	. 080C.	. 15080	.09120	00170	07,950.	07770	.06270	20	
36.060	14.000	2.08030	15430	03620.	01600	35530	03550	05150	000	
36.030	-12.000	2.0800	. 14560	10290	.03730	. 29380	-,02110	.037	10	
35.990	-10.000	2.08000	.13920	. 10510	.05010	.23450	01430	. n297J	5.7	
35.970	-8,000	2.08000	.13350	.10810	. 05950	. 18070	01010	02330	30	
35 950	-6.000	2 08000	.13:20	.11150	.06750	.13130	00610	.01730	30	
35.950	000.7	2.08000	. 12750	.11300	.07680	.08340	00140	04110.	t0	
35.950	-3.000	2 .0⊌000	. 12510	.11340	. 08050	.05900	.000020	.0087	17.0	
35.940	252 2-	2 .08030	. 17560	.11280	.08430	.04020	00010	.00600	00	-
35 940	-1.000	2.08303	12420	.11210		01940	.00060	.00380	80	
3, 940	GOD .	5 08000	.12470	.1.210	.08370	00330	.00230	.00050	50	
35.940	1.000	2 09030	.12330	.11200		C 2910	.00370	00280	.80	
35 940	C.0.2	2 09073	. 18teg	01211.	.07930	04630	.00420	00520	50	
35. 94C	000 S	2 08000	. 12850	. 11250	.07480	06730	004400	00780	90	
35 950	000°+	•	12743	.11260	01690.	03080	.00610	01050	50	
35 950	6.000	2 08000	13030	.11100	.05980	13760	.01050	016	50	
35.973	000 8		02.121.	.10760	. 04360	18670	.01530	02160	90	
35 930	000 D1	℃ 08000	ექ. ა.	01+01.	04320	o+0+2·-	. 02050	32830	130	
36 050	C00 ~1	5 06000	ري. بند:	10140	. 03130	25820	.02540	03600	000	
35 053	000 · *	S 08336	09741	01860	.01310	36030	.03260	068+0	00	
36.110	16 000	3.3673	C62#1.	. 09550	. 00360	42610	.03860	04980	180	
36 223	20 023 20 023	C	CB4G: .	03060	.02260	- 54840	.04530	05830	061	
	GRAD: ENT	20.00 -	11665.	00009	69092	02164	26000.	00277	77	

k	TABULATED	ED SOURCE TOPCE DATA	ı	CA11 (UMAL1146	146 1				A	PAGE 85
		CA110MAL	CALLUMALLIY6(EXT)KIH15.7V9.1	15.779.1	AT70AT71	128.1		(RG0091)	VON +1 1 C	ov 75 J
REFERENCE DATA	ATA						PAR	PARAMETRIC	DATA	
00.0000 SQ.FT. 27.7800 IN. 48.0000 IN.	XMRP VPPP ZMRP	1339.9100 0000. 190.75001	IN. XC IN. YC			18 E F	ALPHAM - ELV-1B - RUD-U - ITANK -	6.380 .250 .000 .000	STAB ELV-OB RRUD-L RTANK R	-1.960 .000 .000
	PGN NO.	91/ 0 RN/L	/r = .00	GRADIENT	INTERVAL .	-5.00/	5.00			
σ	SETA	⋖	ರ	8	ר.א מריא	Շ	CLN	CSF		
36.240	-20.000	6.37000	. 45320	00011.	03060	.55560	04290	.07000	000	
	-14.000	6.37000	78380	11810	05350	35190	05830.	. 0+03.	200	
	-12.000	6.37000	49160	. 12060	05200	. 29160	02180	. 04263	63	
	~10.000	€ 37600	28+6+	. 12153	04280	. 22900	01520	06420.	06	
	-8.000	6 39000	CE084.	12450	02320	17960	01100	.02770	7.0	
	-6.030 -	6 38000	. 48370	04/07	00820	. 12930	00620	. 02130	30	
	000.7	6.38000	47670	. 12850	.00310	08140	00100	05+10.	Š.	
	2000	6.38000	070/3	08/21.	000000	00000.	-,00030	0/010.	0.00	
10 P	יים ביים מיים ביים מיים ביים	5 48000	בות הליד. בות הליד	127.00	00/20	020650.	ממממט.	07700	200	
		6 38000	00000	18590	04000.	.00070	00170	.00130	30	
	1 000	6 38000	.47530	.12650		02200	.00350	00250	350	
	CC0 ≥	6 38300	.47513	. 12730		04160	.00320	00590	069	
	3 000	2Cvu - 9	かしてい	. 12783		06050	.00360	00930	330	
	000 ×	6 38.	0362*	12810		08100	05+00	01300	000	
37.960	6.000	6 38000	0508≯.	.12570		12720	.00920	01890	06.	
	00.00 00.00	6 . 38003	0/08+	CB*.01.		17720	0010	02640	O + (
	000 01	6 37000	01787	061,	04740	22890	.01870	03360	260	
	<u>18</u> .000	9 34030	ວ∷ດ@*.	. 11920	05350	26840	.02500	- 34070	170	
	CCO. *	£ 37000	51677	.11520		34950	.03150	04713	2	
	<u>က်</u> ကိ	6 37000	46553	.11330	04530	41420	.03710	05320	250	
		5 37000	. 43580	.10680	03150	53770	.04170	8-90·-	90	
	GRADIENT	actst	00033	00002	- 00039	ዐ2ዐ2ኑ	.00072	0034	2 4 1	

DATE 15 NOY 75

ORIGINAL PAGE IS OF POOR QUALITY

SREF . LREF . BREF . SCALE .

NOV 75	TABULATI	ED SOURCE	TED SOURCE FORCE DATA - CALL (UMALITYS	- CA11	C UMAL 13	(46.)				α.	PAGE 90
		CA110	CALLUMALLING(EXT)KINIS.7V9.1	KIHIS.	7v9.1	AT70AT71 T28.1	128.1		(RG0092)	VOV +1) (S	NOV 75 1
REFERENCE DATA	ITA							PAR	PARAMETR1C	DATA	
5560.0003 SD.FT. 327.7800 IN. 2348.0000 IN.	APPR YPRP ZPRP ZPRP	1339.9100 .0000 190.7500	00 IN. XC 00 IN. YC 00 IN. ZC				A. F. L.	ALP: 14 - 12 EL V - 18 - RID-U - 11 INK -	.000 .000 .000	STAB ELV-08 : RUD-L : RTANK :	-1.963 .000 .000
	RUN NO.	0 /26	RN/L .	00.	GRADIENT INTERVAL	INTERVAL =	-5.00/	5.00			
0	BE 1A	AL PHAM	<u>ت</u>	O	9	SL _M	Շ	Z C	SS		
36.330	-20.000	15 7801	•		. 19210	13490	.57380	04210	.07500	000	
	-16 000	12.7800	•		. 20540	16920	04084	03430	. O.	330	
2,79	14.00	12. /8000	0.056. 0.0050	•	20750	15780	. 35130	02/80	i c	000	
36.093	-10, r. id	12.7800	•	•	20970	-, 13140	. 23610	. 01430	.03390	200	
36.070	-8.000	12.7800	•		21820	11740	. 18560	01100		110	
36.050	-6.000	12.7900			21280	10770	.13490	00700	.02	0+0	
36.040	-4.000	12.7800	0+0+6		.21470	05680	06060.	00+00		00	
36.040	-3.000	12.7800			21530	09270	06690.	00310	0103	080	
36.040	-2 000	12.7600			21493	08570	04740	00200	.00700	200	
36.047	000	10.7800		•	21597	28350	.02970	00150	02+00.	ئ د د	
36.030 36.030	060.	12.7800			01040 01540	08410	01030	. 00080	00170	20	
36.030	3.000	12 7800	02848.		21520	08740	02950	. 00130	00530	530	
36.040	3.000	12.7800	•		51450	03430	04760	.00200	٠. ورو	970	
36.046	₹.000	12.7803			21460	03850	07050	.00320	01230	30	
36.050	9 .000	12 7800			21230	11130	11540	04900.	01870	370	
36.050	8.000	12.7800	0553		20290	12060	16630	06010.	02580	980	
263 9£	10 000	12 .950		•	20587	13010	22080	.01570	03310	210	
	12 000	12.7825	•	٠.	20420	14320	27910	.02200	04100	00	
	000 31	12.7800	•		20210	15750	34310	.02850	0.04010	010	
	16 (3)	12 78000			19870	16630	41320	087.	05720	200	
	123 07 123 08	00000 00000	D/ + 13. Di	۱ ۱	18770 0007a	- 13480	1. 15 to 20 to 1	13990	1.071.00	ם פר	
			•			11000			2	2	

SAFF ... BREF ... SCALE ...

į

CALIUMALITHG(EXT)KIMIS. 1V9.1

5

14 NCV 75

(RGC093)

AT70AT71 T28.1

60000 00000 00000 PARAMETRIC DATA

STAB ELV-OB RUD-L RTANK .000 ALPHAM ELV-18 RUD-U

CSL 07700 053940 053390 07720 072050 010720 5.00

GRADIENT INTERVAL

00

RN/L

PUT NO

XYX XXX

1339.9100 IN. 0 0000 IN. 190.7500 IN. 1

XMRP YMBP ZMRP

5500.0700 SQ.FT. 327.7800 IN. 2349.0000 IN.

SPEF LREF BREF SCALE

REFERENCE DATA

. 53910 . 39860 . 20790 . 20790 . 1079300 . 107930 . 107930 . 107930 . 107930 . 107930 . 107930 . 1079

SREF LREF BREF SCALE

_
UMAL 1 146
·
CALI
ŧ
DATA
FURCE
SOUPCE
TABULATED

NOV 75	TABULATED	ED SOUPCE	SOUPCE FURCE DATA - CALL C UMALITHE	CALL CUMAL	1146)				P46E	SE 92
		CAIIU	CALLUMAL LIMBLEXTIKIMIS, IV9. 1	H15.1V9.1	AT70AT71 T28.1	128.1		(RG0094)	VON +1 > (1	(27 VC
REFFRENCE DATA	ITA						PAR	PARAMETRIC	DATA	
3500.6000 50.FT. 327.7800 IN. 2348.6000 IN.	XMRP YMRP ZMSP	1339.9100 .0000 190.7500	00 IN. XC 00 IN. YC 00 IN. ZC			A BE	ALPHAM • ELV-18 • RUD-U • 1TANk	6.380 .000 .000 .000	STAB EELV-OB ERUD-L ERTANK E	
	PUN NO.	o /36	RN/L 00		GRADIENT INTERVAL .	-5.00/	5.00			
ø	BE TA	ALPHAM	_	8	E C	Շ	20	CSL		
36.210	-20.003	6.37000	•	. 10910	07120	50540	01240	06890.	068	
35.050	0/10	5 47 60	00191	00/11.	1.0520	30800	00000) C	
36 020	-12 500	•		12150	02870	. 25130	00250	50	200	
35 990	-10.503	6 37009		.12310	03650	19450	.00530	.03290	36.	
35.973	200 B-		•	. 12520	02060	.15160	.00660	.027	20	
35.960	-8.000	c. 3900	•	. 12660	60450	.10810	.00650	.02030	130	
75,950	000.	6.39000		.:2670	.00530	. 06620	01200.	.01380	80	
35 950	C (C (C (C (C (C (C (C (C (C (C (C (C (C	5 38050		. 12640	.00930	.05030	. 00580	001030	30	
0 2 3 4	000 N-	6 38000		. 12560	.00580	.03170	.00370	. 00690	069	
0.00 me	656	5 380C i	00000	. 12530	04400.	.01820	.00170	02+00.	20	
) - O C			12510	.00533	00110	08000.	32100.	200	
2 to 10 to 1	5 (2 (2) - (1)	10000		במנות ד במנות ד	07.500	03.00	06000-	0,000,1		
35 353	3.076			. 12650	. 00250	04750	00420	00820	20.00	
35 9.0	000	300a£ 9	0: 3Lt 5	. 12683	06120	06290	-,00580	011140	D.7	
345 345 0	ວາວ ງ			. 12550	01040	10330	00590	01820	021	
35, 670	8 200 8	6 3 6000		. 12410	02600	14620	00550	02470	.70	
35. 940	16 033			.12180	04 50	19290	00450	03210	10	
35 020	č •	6 37005		. 11960	05370	24650	-, 30080	03930	130	
35, 40	2:3 -1	. U		11700	05460	- 30890	06200.	06940	06	
0.0 32			0.177.00	01 11 1.	.07570.	366:0	. 66690	- 55230	05	
GE 3 3		, 	C) 7	0950,	07450	-, 48350	.01120	07100	i,	
	GRAL IL	.)	# 1700 ·	. 0 0002	00087	01623	00158	- 51313	313	

<u>ئ</u>	TABULATED		SOURCE FORCE DATA - CALL (UMALILYS	AII CUMAL!	146)				PAGE 93	
		CALIUMAL	CALIUMALII GIEXTIKIHIS. 199.	15.199.1	AT7L-171 T28.1	T28.1		(RG0095)	(14 NOV 75)	
REFERENCE DATA	0, 7A						PAR/	PARAMETRIC [DATA	
500.0000 SQ.FT 527.7800 IN. 548.0000 IN.	MARP * ZMRP *	1339.5100 .0000 190.7500	IN. YC			ALP ELV PUD	ALPHAM = 6 ELV-18 = RUD-U = 11ANK = 1	0000	STAB1.950 ELV-0B000 PUD-L000 RTANK000	
	P.N NC.	95/ 0 RN/L	راد ء .00	GRADIENT	GRADIENT INTERVAL -	-5.00/	5.00			
o	BETA	ALPHAM	ಕ	9	נר	Շ	CLN	CSL		
36.200	-20,000	2.08000	. 15770	0:160.	01420	. 50290	01030	01650.	91	
35.090	-16.000	2.08000	. 16340	0.0840	00370	.37770	00680	00010.	୍ଦ୍ର ପ	
36.010	000.41	7.08000	15071	10450	01010	. 25370	00530	03320	0.00	
35.990		2.08000	14580	. 10650	. 04120	. 19960	00240	. 02690	06	
35.970	-6.030	2.08000	.13950	. 10860	.04570	. 15440	. 60630	.02110	0_	
35.960		S. 08000	.13570	.11126	. 05630	. 11110	. 00610	.01580	30	
35.950	-4.000	2.08000	. 1323ເ	.11240	. 0667ს	.07020	. 00660	.01060	0.5	
30.05	000	2.08000	.13160	.11270	.07080	.05000	. 00570	.00820	0.1	
35.95	-2.000	2.08000	. 1287.0	. 11.90		.03370	. 00350	06500.	200	
50.05 0.05 0.05	000.1-	000000	מממני -	משטיי.	0/0/0.	08/10.	00100		200	
35.940	1000	2.08000	02621	11.060		02050	09000	00200.	20	
35.940	P. 300	2.08000	1.2950	.11150		03810	- 00140	60410	0_	
33.940	3.000	2.09030	.13490	11190	06430	05460	00310	00690	90	
35.950	£.000	2.08000	13390	.11200	. 06050	07190	30430	00870	20	
35.960	9 .000	2. n8000	.13750	. 11100	. 05040	-, 11410	00360	01340	0,	
35.970	8.000	2.080n0	. 13980	.10810	04310	15690	00340	01960	20	
35.990	10.000	S 08000	0 1 K 3 t O	. 10540	.03530	20300	00210	02560	00	
36.010	12 000	€.08000	ロナオナロ・	0.10340	.03050	26000	.00160	03220	Dā	
36.040	14.000	S.08000	.14673	. 09950	.01750	31470	.00500	03870	0.5	
0	16 000	5.08000	. 14680	. 09630	02+00.	37550	. 10810	08+40	30	
36.130	18,000	2.08000	. 1 5850	03260.	00230	43480	06600.	05070	0,	
	20.090	2.08000	13420	. 09630	.000co.	07764	.01250	05553	Cin	
	トスピーのものと	00000	פרככם	ניים הי	1 0000	1 0174	رد DC ا	91/00/1	Ę	

DATE 15 NOV

ORIGINAL PAGE IS OF POOR QUALITY

Z

DATE 15 NOV 75	TABULAT	ED SOURCE FO	ATED SOURCE FORCE DATA - CALL (UMALITYS	A:1 C UMAL1	146)				_	PAGE 94
		CA11UMAL	CAIIUWALII46(EXT)KIHI5.6V9.ICIVII AT86AT87 T28.I	115.609.1010	11 AT86AT87	128.1		(RG0099)	_	14 NOV 75
REFERENCE DATA	ATA						PAR	PARAMETR1C	DATA	
SREF = 5500.0000 SQ.FT. LREF < 327.7800 IN. BREF = 2348.0000 IN. SCALE = .0000	XMRP = ZMRP =	1339.9100 .0000 190.7500	IN. XC			BET ELV RUD 1TA	BETA ELV-18 ELV-18 FUD-U	0000	STAB ELV-08 FIJO-L FIJO-L	-1.960 .000 .000.
	RUN NO.	99/ 0 RN	RN/L00	GRADIENT	GRADIENT INTERVAL =	-5.00/	5.00			
o	ALPHAM		ಕ	8	N C	ζ	Z	153		
36.030	0 + 7 . + -	00000.	45200	.14250	19170	- 00400	.00280	000	70	
36.000	-2.250		26320	. 12020	. 16570	00460	.00280	.001	30	
35.990	070		06730	.11060	.13350	00220	.00260	.00140	10	
35.990	2.080		. 12200	. 10870	00160°	00150	.00250	000	50	
35.990	4.230		.30610	.11250	.04550	.00,60	00100.	000	90	
35.950	6.370		.49300	. 12320	01590	.00320	.00210	.00	01	
36.000	8.520		. 66440	.13840	06320	.00520	.00160	100.	60	
36.030	10.650		. 82380	.16770	08400	06800.	.00100	.00	70	
36.090	12.780		.97450	.21600	09530	.01160	.00010	000	80	
36.180	14.890		1.10000	. 28030	11170	.01200	00000.	.00	20	
36.290	16.960		1.21830	.35970	12040	.01060	04000.	000.	90	
36.410	19,950		1.29760	.43660	14380	.01670	00050	000	90	
36.530	20.910		1.32890	. 50820	16010	.02050	00110	000	50	
36.670	22.930		1.38970	.58810	21410	.02380	00270	. 002	30	
36.810	24.950		1.44520	.67100	28420	. 02590	00340	.002	60	
	GRADIENT		. C8774	00331	01689	.00066	00010	- 000	02	

1;

C.4

PAGE 954

ł

õ	CAIIUWALII46(EXT)KIHI5.6V9.ICIVII AT86AT87 T28.1	(RG0100) (14 NO	ž <u>†</u>
REFERENCE DATA		PARAMETRIC DATA	<

	0000.																										
איאם סואי ששאל	2.080 STAB .000 ELV-08 .000 RUD-L		ารว	.05610	.04930	.04270	. 03500	04740	. 02050	.01470	01080	. 0~780	00400	. 00030	00290	00660	00980	01346	01990	02590	03370	03980	04680	05360	06220	00350	
2	ALPHAM ELV-18 ELV-18 ELV-18 IND-U	5.00	N U	1.04850 1.04410	03790	03040	02290	01510	00970	00640	00+10	00220	.00000	.00210	09+00.	. 00690	00600.	.01050	.01480	.01990	.02740	.03500	04100	04940	006+0.	.00217	
	רבי ביינים דיים ביינים	-5.00/	Շ	.60160	40150	.33380	. 26640	. 20810	. 15130	.10410	.07670	.05120	. 02830	00010	02740	- 05330	07930	10300	15260	20570	26610	-,33140	39720	1.46480	59000	02598	
		T INTERVAL	E C C	08180	03870	00860	06110.	04620.	04:10	.06110	. 08300	0890.	. 09290	. 09200	. 09020	. 08500	. 07450	. 06590	.03610	05430	. 00520	01840	04630	. 07120	- , 08960	000;5	
	XMRP = 1339.9100 IN. XC YMRP = .0000 IN. YC ZMRP = 190.7500 IN. ZC	GRADIENT	8	. 08560	01760.	.10050	. 10200	. 10325	.10360	.10550	.10740	. 10850	. 10893	.10870	. 10840	.10750	. 10720	. 10640	. 10350	. 10260	0+001.	.09830	00960.	06160.	.08350	. 00001	
		zzz Z		. 17960	17190	.15800	14680	. 13940	. 13430	. 13080	12720	. 12420	. 12470	. 12270	. 12530	.12360	. 12790	.13060	. 13500	. 13790	.14230	.15230	. 16490	. 16690	.16080	.00003	
₹		1007 D RN/L	ALPHAW	2.08000	2.39000	2.08000	2.08000	2.08000	2.08000	S.08000	2.08000	2.08000	2.08000	2.08000	€.08000	2. r8000	2.08000	2.08000	2.08000	2.08000	2.08000	2.08000	2.08000	2.08000	2.08000	00000 -	
		RUN NO. 1	BETA	-20.000	-14.000	-12.000	-10.000	-8.000	-6.000	-4.000	-3.000	-5.000	-1.000	000.	1.000	2.000	3.000	۴.000	6.000	8.000	10.000	12.000	14.000	16.00	20.000	GRADIENT	
MER EMENCE DATA	F = 3500.0000 SO.FT. F = 327.7800 IN. F = 2348.0000 IN. LE = .0400		a	36.300	36.130	36.090	36.050	36.030	36.010	35.990	35.990	35.990	35.990	35.990	35.990	35.990	35.990	36.000	36.010	36.030	36.050	36.030	36.130	36.180	36.293		
	SREF LREF BREF SCAL																										

_
140
UMAL
-
CAII
1
DATA
FORCE
SOURCE
TABULATED

TAGE 30	(RG0101) (14 NOV 75)	PARAMETRIC DATA	6.380 STAB = -1.960 .C30 ELV-08 = .000 .000 PUD-L = .000 .000 RTANK = .000
LED SOUNCE FORCE DAIN - CAII (OMALIITO)	CAILUMALITEETEXT)KIHI5.6V9.ICIVII AT86AT87 T28.1		1339.5100 IN. XC ALPHAM = .0000 IN. YC ELV-18 = RUO-U = ITANK =
טאוב וש מאים ואפעראובט שטר	õ	REFERENCE DATA	SREF = 5500.0000 SQ.FT. XMRP = 1335 LREF = 327.7800 IN. YMRP = 190 BREF = 2348.0000 IN. ZMRP = 190 SCALE = .0400

	CSL .06578 .05670 .05670 .05670 .03840 .03384 .01690 .01690 .00470 .00470 .00110 .00110 .00110 .00110 .00110 .00110 .00110 .00110 .00110 .00110 .00110 .00110
5.00	CLN 03870 03550 03550 00570 00570 00570 00570 00570 00570 00580 00680
-5.00/	. 58980 . 58980 . 39000 . 38650 . 26100 . 26100 . 26100 . 09970 . 09970 . 08520 . 09340 . 14400 . 57260 . 57260
INTERVAL	CLM
GRADIENT	11480 11710 11710 12860 12860 12860 12860 12860 12860 12860 12860 12860 12860 12860 12860 12860 1880 1880 1880 1880 1880
٠. • .00	25930 25930 259320 250320 250320 250320 250320 269300 269300 269300 269300 269300 269300 269300 269300 269300 269300 269300 269300 269300 269300 26930 26930 269300 269300 26930 269300 269300 269300 269300 269300 269300 269300 269300 269300
01/ 0 RN/L	ALPHAM 6.37000 6.37000 6.37000 6.37000 6.37000 6.37000 6.37000 6.37000 6.37000 6.37000 6.37000 6.37000 6.37000 6.37000 6.37000
RUN NO. 1	##TA -156.000 -12.000 -12.000 -12.000 -2.000 -2.000 -1.000
	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

4

, ,1

DATE 15 NOV 75	TABULATI	ED SOURC	E FORCE (DATA - CA	ATED SOURCE FORCE DATA - CAIl (UMALI146 CAILUMALI146(EXI)KIHI5.699.ICIVII A	OURCE FORCE DATA - CAII (UMALII46) CAIIUMALII46(EXI)KIHI5.6V9.ICIVII AT86AT87 T28.I	128.1		(860103)	-	PAGE 98
REFERENCE DATA	474							40	CABAMETOTO	747	2
	<u>;</u>										
SQ.FT. IN. IN.	XPRP # YPRP # ZPRP	1339.9100 .0000 190.7500	z z z	200 200 200 200			A의 ST	ALPHAW = ELV-18 = RUD-U = 1TANK =	6.380 .000 25.000	STAB ELV-08 = RUD-L = RTANK =	-1.960 .000 .000
	RUN NO.	103/ 0	RN/L .	00.	GRADIENI	GRADIENT INTERVAL .	-5.00/	5.00			
	BETA		_	1	8:	CLM	CY	CLN	85		
	-16.000	6.37000		49750	11870	- 12110	19480 149480	05850		08150	
36.160	-14.000	9		50470	.12150	11400	.42890	05450		.05530	
	-12.000	6.37000	•	50220	12240	-,09310	.36130	01840		08840.	
	-8.000	် ဖ		08/5	. 12430	05070	.23150	03160		01+3	
	-6.000	ø.		.48380	.12390	03520	17260	02310		.02580	
	-4.000	ė		.48770	. 12430	02630	. 12290	01800		900	
	-3.000	<u>ن</u> ف	-	01064	. 12450	02040	04660.	01630		.01430	
	-4.000	6.3 /000		48810	.12460	01680	07550	01450		01110	
	000	o co		48570	00001.	00550	02720	- 01030		00.240	
	1.000	ω̈		06684	. 12550	0+600'-	00100	01600		0+0	
	S .000	ဖ်		+9070	.12580	01160	02290	00740		1530	
	3.000	φ		+8930	.12550	01830	04900	00500		0960	
	4.000	Ġ.		9040	. 12530	02650	07370	00280		360	
	6.000	ம்		18740	.12470	03650	-, 12390	.00230		130	
	8.000			18920	. 12450	05100	07771	.00730		870	
	10.000	œ.		.48830	. 12410	06700	23610	. 01360		5500	
	12.000	ю́		+9560	. 12430	0.07970	24530	C+810.		100	
	14.000	Ġ.		19310	.12050	09380	35570	.02270		1700	
	16.000	က်		.48900	.11860	11010	41810	. 02570	_	5230	
	20.000 CDAD: ENT			45580	01801.	09170	04446-	.02650	06210	55.00	
	משוק האס	•	•	10000	0 (0 0 0 .	06.000.	י המלמטי	9100.		001	

(RG0104) (14 NOV 75)

g

PAGE

" Though " (A) deployed and a resolution of

CAILUMALII46(EXT)KIHI5.6V9.ICIVII AT86AT87 T28.:

ARAMETRIC DATA	2.080 STAB = -1.960 .000 ELV-0B = .000 25.000 RUD-L = 25.000 .000 RTANK = .000
PARA	ALPHAW = 2 ELV-18 = 25 RUD-U = 25 1TANK = 25
	339.9100 IN. XC .0000 IN. YC 190.7500 IN. ZC
	(MRP # MRP # CMRP #
REFERENCE DATA	5500.0000 SO.FT. X 327.7800 IN. Y 2348.0000 IN. Z
	SREF LREF BREF SCALE

GRADIENT INTERVAL = -5.00/ 5.00

00.

RN/! *

RUN NO. 104/ 0

CSL . 05310 . 05310 . 05560 . 04900 . 04330 . 01820 . 00920 . 00920 . 00930 . 00930 . 00930 . 01520 . 00930 . 009300 . 00930 . 00930 . 00930 . 00930 . 00930 . 00930 . 0093	
CLN - 07960 - 07690 -	
66420 .53320 .53320 .39730 .39730 .14620 .12580 .09890 .07470 .07470 .07470 .07470 .07470 .07470 .07470 .07470 .07470 .07470 .07470 .07470 .07470 .07470 .07470	
- 07690 - 04830 - 02090 - 0209	
ALPHAM PROPERTY OF THE PROPERT	
BETA -20.000 -14.000 -10.000 -4.000 -1.00	
36.250 36.120 36.120 36.120 36.020 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000	

SREF LREF BREF SCALE

PAGE 100

CATIUMALII46(EXT)KIHI5.6V9.1CIVII AT86AT87 T28.1 (R60105) (14 N

		CA11UMA	CAIIUWALII46(EXTIKIHI5.6V9.1CIVII AT86AT87 T28.	15.609.1017	11 AT86AT87	T28.1		(RG0105) ((14 NOV 75	75)
REFERENCE DATA	NTA						PARA	PARAMETRIC DATA		
5500.6000 SQ.FT. 327.7800 IN. 2348.0000 IN. .0400	XIBRP YNYP ZMRP	1339.9100 .0000 190.7500	IN. XC IN. YC			A P P F	ALPHAM = 12 ELV-18 = 25 RUD-U = 25 ITANK =	12.790 STAB		-1,960 .000 25.000
	RUN NO.	105/ 0 R	RN/L00	GRADIENT	GRADIENT INTERVAL .	-5.00/	5.00			
σ	BETA	ALPHAW	7	8	מרא	Շ	CLN	CSL		
36.450	-20.000	12.77000	.87880	.20170	12380	.64500	06490	.07260		
56. 550 56. 280	-16.000	12.78000	. 92930	.21600	16590	.51060	06370	.05880		
36.230	-12.000	12.78000	.95720	21830	16630	.38390	06040	06240		
36.190	-10.000	12.78000	.96180	0+612.	15320	32440	05510	.03630		
36.160	-8.000	12.78000	0+896.	. 22040	13350	.26140	04650	. 02900		
36.130	-6.000	12.78000	. 96950	.21980	12050	.20610	03990	. 02230		
36.110	-4,003	12.780C0	. 96060	.22000	11050	.15310	03360	.01530		
36.110	-3.000	12.78000	.97180	. 22050	10200	. 13060	03200	.01180		
36.100	-2.000	12.78000	. 96520	.21930	03730	.10590	-, 02950	36700.		
35.100	-1.000	12.78300	.96420	.21860	09010	.08280	027P0	06+00.		
36.090	000	12.78000	.96850	.21960	08920	.05950	- 05480	0,000.		
56.090	1.000	12.78000	00026	.21970	-,08570	.03480	02230	00270		
35.090	2.000 -	12.78000	.97210	.21960	08880	.009. c	01930	00890		
36.030	3.000	12. 78000	09/60	08812.	0,550	0.010	06510	01090		
36.100	4.000	18. /B000	. 37.8.	21990	-, 10400	04510	01500	01470		
36.110	6.000	12.78000	04176.	0,520.	11540	09130	00930	02220		
30.160	000.B	16 /8000	05595.	09512	- 12150	1.1400C	06400 -	02900		
36.150	10.001	12.78500	.96190	0,619.	13260	19460	00020	03530		
36.180	12.000	12.7F100	. 96030	. 21880	15400	25800	.00420	00 h ti 00 -		
36.220	14.000	12.7E000	.94980	.21670	17340	31920	. 00660	05100		
36.250	16.000	12.78000	. 33340	.21+30	17870	37530	.00690	05740		
36.370	20,000	12.78000	.88230	.20310	14020	50810	01000	-,06330		
	GRADIEN	. 0 0000	i anno .	טטטטט	cknon.	1.00440	0000	c/500		

1

4

DATE 15 NOV 75

TABULATED SOURCE FORCE DATA - CAI: (UMALII46)

PAGE 101

(14 NOV 75)		25. 25. 25. 25. 25. 25. 25. 25.																								
	C DATA	STAB ELV-0B R RUD-L R RTANK		یہ	.07250	5500 5640	. 05000	.04230	.03460	2690	.01950	0/510.	001	.00780	08000	00470	00820	01230	02000	02780	03500	04030	04640	05130	06100	00399
(860106)	PARAMETR1C	6.380 .000 25.000		CSL					_							•			_							
	_	ALPHAW # ELV-18 # RUD-U #	5.00	S	06960	000000	-,06230	05420	04480	03560	03010	01/00.1	- CO450	- 02500	00000	01860	01590	012	00720	00260	0.00240	.90633	D~000.	.01,20	01140	86100.
7 728.1		A P F F	-5.00/	გ	.64600	. 07. 4.0 07. 87.0	38970	.32200	. 25643	19620	2007	060.01.	05050	0/1/0	07470	00030	-, 02590	05380	10560	15880	21480	27490	33110	39320	51450	02472
/11 AT86AT87			GRADIENT INTERVAL -	CLM	09210	- 10600	08470	06390	04060	02600	02350	01850	09510	02010	0.0050	01140	01860	-, 02680	03890	05520	06310	07960	09770	10740	08590	00013
CA11UWAL1146(EXT)KIH15.6V9.1C1V11 AT86AT87 T28.1				8	11470	05021	12520	. 12610	. 12590	. 12590	. 12590	0/921.		07751.	12.770	. 12790	. 12730	. 12660	.12750	. 12740	. 12770	. 12790	. 12490	. 12220	.11230	.00005
1146(EXT)K1		Z	/٦ = .00	ರ	.45960	. 40110	. 49670	01+6+.	.48670	. 48553	05084	05484	7,484,00	.48630	48820	06064	.48820	06684.	00264.	.49190	0026h.	01964.	.49530	04.8	145490	. 00075
CA11UMAL		1339.9100 .0000 190.7500	106/ 0 RN/L	ALPHAM	6.37000	6.37000	6.37000	6.37000	6.27000	6.37000	27000	27000	٠	5.37000	6.37000	6.37000	6.37000	6.37000	6.37000	6 .37000	6.37000	6.37000	6.37000	6.37000	6.37000	00000.
	ATA	XMRP YMRP ZMRP	RUN NO. 1	BETA	-20.000	14.000	-12.000	-10.000	-8.000	-6.010 -1.010	2000	20.00	000.	000	1.000	2.000	3.000	₹.000	6.000	8.000	10.000	12.000	14.000	16.000	20.000	GRADIENT
	REFERENCE DATA	0000 SO.FT. 7800 IN. 0000 IN. 0460		ø	36.360	36.180	36.130	36.090	35.050	36.030	26.020	20.010	36.000	26.000	36.000	36.000	36.000	36.000	36.020	36.040	36.050	36.100	36.130	36.170	36.280	
		SREF = 5500.0000 LREF = 327.7800 BREF = 2348.0000 SCALE = .0400							•	U,	Ri	(G Pr	TI X	V. Of	12 2 () }	A	G L	E	1	S					

ŧ

The second secon

1 × .

~
46
JHAL 1
2
_
Š
DATA
Ď
ORCE
-

DATE 15 NOV 75		TABULAT	ED SOUR	CE + ORCE	DATA - CA	ATED SOURCE FORCE DATA - CALL (UMALITYS	146)					PAGE	102
			Š	1 UMAL 1 146	(EXT)KIH	15.6v9.1C1v	CAIIUMALIIYGEEXTIKIHI5.6V9.ICIVII ATBGATB7 T28.I	128.1		(RG0107)	-	14 NOV 75	
t	REFERENCE DATA	DATA							PAR	PARAMETRIC	DATA		
SREF = \$500.0000 LREF = 327.7800 BREF = 2348.0000 SCALE = .0400	0000 SQ.FT. 7800 IN. 1000 IN.	XMRP * YMRP * ZHRP *	1339.	1339.9100 fN. .0000 IN. 190.7500 IN.	0 4 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2 0 2			TAGE!	ALPHEM = ELV-IB = RUD-U = ITANK	6.380 .000 .000 .000	STAB ELV-08 RUD-L ATANK	1 8	-1.950 .030 25.000
		RUN NO.	0 //01	RN/L	.00	GRADIENT	GRADIENT INTERVAL .	-5.00/	5.00				
	0	BETA	ALP		و و و ا	03	CLM	ر در	CLN	CSL	c L		
	36.210	-16.000	6.37000		.45590	11800	12260	08684	0.500	0.00	.05910		
	36.160	14.000	•		50220	12110	11080	142570 01975	05120	000	280		
	36.080	-10.000	6.37		08664	12460	06810	29050	03720	03840	0.50		
	36.050	-8.000	6.37		.49050	12440	04820	.22670	00- 20	.03	180		
	36.020	-6.030	6.37		00164	. 12430	03120	.17180	6<200	. 02400	400		
	36.010	000 H	6.37	37000	49080	.12480	02630	. 12090	01670	õ	.01680		
	35.000	-2.000	6.37		.48880 .4959n	12580	01850	.05730	01410	. 00880	980		
	36.000	-1.000	6.37		49:10	. 12520	01530	04940	00950	.00580	580		
	36.000	000.	6.37	37000	49220	.12580	01080	. 01920	00750	.00120	120		
	36.000	2.000			49350	. 12580	01510	08500	00479	00730	730		
	36.000	3.000	6.37		49270	. 12560	02400	05240	00240	01090	060		
	36.000	4.000 4.000	6.37		43030	06431.	03070	07520	0,00040	01480	480		
	36 040	000.00	ָ ה ה ה ה ה	37600	. 49.50 49670	. 1656U	- 04550	- 18970	00000.	UZGBU - 03010	080		
	36.060	10.000	6.37		19850	12450	07800	24200	01770	03700	700		
	36.100	12.000	6.37		50590	. 12400	09430	30210	. 02280	04400	400		
	36.140	14.000	6.37	_	50210	. 12110	11210	36280	.02700	04920	920		
	36.180	16.00	6.37		01164	0.611.	11940	42410	04620.	05390	390		
	20 · CBU	GRADIENT	60°		. 00000	. 00002	10680	02446	.00195	06360	550 403		

ŗ.

TABULATED	
ĸ	
Š	
ñ	
QATE	

TABULATED SQURCE FORCE DATA - CALL (UMALITYS)

PAGE 103

(PG0108) (14 NOV 75)	
CA!!UMAL!!#6/EXT)K!H!5.6V9.1C!V!! AT86AT87 T28.1	

REFERENCE DATA	DATA							PARA	PARAMETRIC DATA		
= 5500.0000 SQ.FT. 327.7800 IN. = 2348.0000 IN.	XYMRP YMRP ZMRP	. 1339.9100 	100 IN. XC 300 IN. YC 500 IN. ZC				2007 1705 1705 1705 1705 1705 1705 1705 1	8ETA 17 ELV-18 17 RUD-U 7 1TANK 11	.000 STAB 17.000 ELV-0B .000 RUD-L .000 RTANK	* # # #	-1.980 17.000 .000
	PCN NO.	108/ 0	RN/L .	8	GRADIENT	INTERVAL =	-5.00/	5.00			
O	ALPHAL	_			8	r G	۲	Z,C	CSL		
36.040) \$ 		•	_	.14160	15820	00380	. 00280	.00030		
36.010	-2.250		0015370	_	.12180	20070	-,00230	. 00260	00100		
36.000	07C			_	.11530	26310	.00120	.00180	.00150		
36.000	2.080			_	.11710	32410	.00250	. 00200	. 00150		
36.000	4.23(_	. 12490	-,37440	.00+60	. 00150	. 00200		
36.010	6.37			_	.13930	43040	.00560	04100.	00170		
36.020	9.52			_	.15930	46930	.00720	.00130	.00150		
36.050	10.650			_	. 19150	47660	01110.	04000.	. 00200		
36.120	12.780		_	_	.24310	46310	01410.	00050	. 00150		
36.210	14.89		_	_	.31100	48733	.01170	00000	00140		
36.330	16.960		_	_	. 38970	47490	.01150	00000	. 00130		
36.450	18.95		_	_	.46690	47610	. 02190	00120	04100.		
36.580	20.90 30.		•	_	.54230	47780	. 02290	00110	04000.		
36.710	22.93(-	_	.62440	50880	. 02610	00300	0.500.		
36.850	₹		_	_	70560	55720	.03190	00450	. 00280		
	GRADIEN	T .00000		•	00177	02565	00100.	00015	81000.		

. •. •.‡.

職 なまない かっこう

(RG0109) (14 NOV 75) PAGE 104

ı

CALIUNALII 46 (EXTIKINIS. 6V9. ICIVII AT86AT87 T26. I

	REFERENCE DATA	ATA								_	PARAMETRIC	A 3	
a. 1V	3500.0000 SQ.FT. 327.7800 IN. 2348.0000 IN.	XHRP YHRP ZHRP	1379.9100 - 0000 - 190.7500	100 IN. 500 IN. 500 IN.	999 848				照대또는	3ETA = 15.V-18 = 17.ANK = 17.ANK = 1.00 = 1.	.030 -23.000 .000	STAB ELV-OB BRUD-L BRIANK BRIANK	-1.970 -23.000 .000
		RUN NO.	0 /601	RN/L		00	GRADIENT	INTERVAL .	-5.00/	5.00			
	ø	AL PHA	_		ರ		8	CLM	Շ	Z U			
	3€.050	071.1-	00000.	8	55550		.15660	.59570	04400	.00340	_	.00060	
	36.020	-2.25		90	37290		.13190	.57510	00490	.003	_	020	
	36.010	07		8	15730		0.11940	.56510	00540	.003	_	0110	
	36.010	≥.08		90	01110		.11570	.58870	00250	.003	_	080	
	36.010	4.23		8	.16000		.11680	.57830	00130	.002		0010	
	36.010	6.37		00	33960		.12350	.54950	00070	.003	_	1130	
	36.010	8.52		00	.51570		.13630	.51170	00100	.003	_	0010	
	36.030	10.65		00	.67210		. 15950	. 48650	.00710	.00	_	0100	
	36.080	12.78		00	.82280		. 20060	. 46200	00200.	100.		0600	
	36.1.0	14.89		00	.95790		.26110	06484.	00703	100.	_	0120	
	36.270	15.96		00	1.07370		.33380	.42390	ນ 990 0 .	.00.	_	0600	
	36.380	18.95		00	1.15520		.40370	.36980	.01680	000.	_	0010	
	36.500	20.91		8	1.20120		.47360	3-050	.02070	000 -	_	3120	
	36.630	22.93		00	1.26270		.55330	. 29220	.02530	001		07.20	
	36.750	24.96		00	1.31510		.62400	.21210	. 02390	002	_	320	
		GRADIEN		00	47580.	•	.00443	00099	0,000,	000.		5000	

			CATION	CATIUMALITY6(EXT)KIHI5.6V9.ICIVIT ATB6AT87 T28.I	15.6v9.1C1v	11 ATB6AT87	128.1		(RGO110)	1 VON 41) (1
	REFERENCE DATA	ATA						PAR	PARAMETRIC DATA	DATA
# 1 # #	5500.0009 SQ.FT. 327.7600 IN. 2348.0000 IN.	XHRP YHRP ZHRP	1339.9100 .0000 193.7500	2000 2			BETA FILV-18 RUC-U	1111 00 20 21 21 21 21 21 21 21 21 21 21 21 21 21	00000	STAB ELV-OB PUD-L PUD-L RTANK
		RGN NO.	110/0	PN/L = .00	GRADIENT	INTERVAL -	-5.00/	5.00		
	9	AL PHAM	BE TA	ರ	8	± ซี	ပ်	S L	CSL	
	36.030	14.40	. 00000	43100	01141.	08711.	00350	00300	000.	960
		-2.250	.00000	23970	. 11980	.08500	00280	. 00250	00.	9
		070	00000	04130	. 11080	.04860	00170	00-100	<u>0</u> 5.	رج 13
		2.080	00000	014740	. 10590	.00320	0:160	. 00260	. 63	23
		4.230	00000	. 53370	.11493	04890	00000	04200.	8	30
	36.000	6.370	. 00000	.51520	. 12710	10630	.00350	. 00190	. 00150	50
		8.520	00000	. 68350	14430	1461C	. 63523	.03180		0=
		10.650	00000	.8+560	.17380	16350	01800.	00150		. 60
		12.763	00000	01666.	. 22330	1 7680	.01200	04000		160
		14.890	.00000	1.12100	. 28840	19300	00010.	.00060	00.	160
		16.960	C0000.	1.23950	. 36830	-,19780	.01020	. 20050	.00	00
		18.950	.0000	1.32210	.44670	2 88800	01950	00050	00.	96
		20.910	00000	1.35290	.51860	23320	. 02240	00060	.00	260
		22.930	00000	1.40590	. 59870	27260	. 02520	00250	.00	່ງຄົນ
		096. ₹	. 00000	1.45670	.68060	34420	.02740	00350	00.	383
		GRADIENT	. 00000	.08843	€∵300	01886	0,000.	00005	. 00	503

OF POOR QUALITY

PAGE 105

DATE 15 NOV 75

TABULATED SOURCE FORCE DATA - CALL (UMALILYB)

SREF LIRE? BREF SCALE

-		
7		
\$ £		
5		
_		
5		
,		
4140 PAIN		
í		
Ę		

£. PAGE 106

			CA11.1HAL	CALLIMALLINGCEXTIKINIS.6V9.ICIVII ATBEATB7 T28.I	15.6vg.1C1v	11 ATB6ATB7	128.1		(RG0111)	±	1 ST VON	
	REFERENCE DATA	MTA						PAR	PARAMETRIC DATA	≤		
SAEF LREF BREF SCALE	5500.0000 SG.FT. 327 7800 IN. 2373.0000 IN.	dayx	1339.9100 0000 00001 0007.061				ELV PUO AT	BETA ELV-18 RUO-U	.000 STA .000 ELV .000 RUC	STAB ELV-08 ERUD-L ERTANK	000.	
		FUN NO.	1117 0 RN/L	رد ، .00	GRADIENT	INTERVAL .	-5.00/	5.00				
	o	A PICKU	Ī	ಕ	8	CL#	Շ	CLN	S			
	36.030	057.7	00000	760	04441	28220	00360	00310	00000			
		-2.259		מביי פאי - מבירפה -	0121	בייים. הייים הייי	07700.1	00300	DBOOD.			
		2.080		0.96(3)	. 10830	18920	00070	.00250	00100			
		4.230		29041	11100	14450	04000.	.00250	.00130			
		6.370		.46760	. 12080	06060	.00020	. 00250	00100			
		8.550		.64000	. 13630	.04510	.00310	. 60230	.00090			
		10 650		. 79790	.16400	02250	. 00680	. 00150	.00100			
		12.780		.94650	.20970	.00450	.01210.	. 00020	.00150			
		14.890		1.08020	.27480	91050	.01020	06000.	. 00120			
		16.950		1.19.20	.35320	01370	.00830	00100	. 00120			
		18.950		1.27500	42740	04430	01970	00050	.00160			
		20 910		1.31040	. +9970	- 06200	. 02150	00070	.00070			
		22.930		. 37080	.27770	12170	. 02330	00200	.00250			
		036.		1.42430	.6:920	19650	.02540	00320	.00250			
		1000		0000	02200	40.00	19000	10000	00000			

JS)	.00080	. 000B0	08000.	00100	. 00130	00100	. 00090	.00100	. 00150	. 00120	. 00120	.00160	.00070	.00250	. 00250	900000
S S	. 003! C	.00300	. 00250	. 00250	.00260	. 00250	. 60230	. 00150	. 00020	06000.	00100	-,00050	00070	00200	00320	00007
Շ	00360	07700	00110	00070	04000.	.00020	.00310	. 00680	.01210	.01020	.00830	01970	. 02150	. 02330	.02540	.00354
ਸ ਹ	. 2822	.25520	. 22630	. 18920	14450	06060	.04210	02250	. 00420	01060	01370	- OF#30	- 06200	12170	19650	01575
8	04441.	. 12100	01111.	. 10830	00111.	. 12080	. 13630	. 16400	.20970	.27480	. 35320	42740	. +9970	27770	.6: 920	00368
ಕ	4.760	26 150	OL 160'-	C19:0.	28041	. 46760	.64000	. 79790	.94650	1.08020	1,19,20	1.27500	1.31040	. 37080	1.42430	. 08 752
BETA	00000	Oc 000.	00003.	00000	00000	00000.	00000.	00000	00000	.0000	00000	.00000	.0000	.00000	00000.	.00000
AL PHAN.	054.4-	-2.250	070	2.08C	4.230	6.370	8.520	10 650	12.780	14.690	16.960	18.950	20 910	22.930	096.	GRADIENT

_
UMAL 1 146
_
CA11
ł
DATA
FORCE
SOURCE
6

PAGE 107

40V 75 J		.000 .000 .000 .000
(RG0112) (14 NOV 75	DATA	STAB - ELV-0B - RUD-L * RTANK -
(860)	PARAMETRIC DATA	9000. 0000.
		ALPHAM EELV-18 BRUD-U EITANK
ATB6AT87 T28.1		
CA1.UWAL1146(EXT)KIHI5.6V9.1C1		1339-9100 IN. XC .0000 IN. YC 190.7500 IN. ZC
	TA	XMRP YMRP ZMRP
	REFERENCE DATA	SREF = 5500.0000 SQ.FT. LREF = 327.7800 IN. BREF = 2348.0000 IN. SCALE = .0400

5.00

GRADIENT INTERVAL = -5.00/

80.

RN/L =

RUN NO. 112/ 0

CSL 052-0 0330-0 0330-0 0330-0 02660 01030 01030 00500 005000 00500 00500 00500 00500 00500 00500 00500 00500 005000 00500 00500 00500 00500 00500 00500 00500 00500 005000 00500 00500 00500 00500 00500 00500 00500 00500 005000 00500 00500 00500 00500 00500 00500 00500 00500 005000 00500 00500 00500 00500 00500 00500 00500 00500 005000 00500 00500 00500 00500 00500 00500 00500 00500 005000 00500 00500 00500 00500 00500 00500 00500 00500 005000 00500 00500 00500 00500 00500 00500 00500 00500 005000 00500 00500 00500 00500 00500 00500 00500 00500 005000 00500 00500 00500 00500 00500 00500 00500 00500 005000 00500 00500 00500 00500 00500 00500 00500 00500 0050
CLN
CY 533550 .41200 .34950 .28890 .15220 .059240 .05860 .05860 .183440 .183440 .183440 .183440 .23900 .23900 .23900 .23900 .23900 .23900
CLM - 07800 - 05230 -
08450 09160 09160 09960 09980 10280 10280 10740 10740 10740 10740 10740 10740 10740 10740 10740 10740 10740 10740 10740 10740
CL 1750 1750 15750 15750 15750 13370 12840 12840 12840 11730 11730 11730 11730 11730 118650 118650 118650 118650
ALPHAM
BETA -2000 -115.000 -
26.286 26.286 26.116 36.070 36.070 36.070 36.070 36.070 36.070 36.070 36.070 36.070 36.070

SREF LREF BREF SCALE

1146)
C UMAL I
- CA11
E DATA
E FORCE
SOURCE
ABULATED

PAGE 108	(RG0113) (14 NOV 75)
ABULATED SOURCE FORCE DATA - CAII (UMALII46)	CALIUMALIIVE (EXT)KIHIS, 6V9. ICI ATBGAT87 T28. I

	600. 000. 000.																									
C DATA	STAB ELV-08 = RUD-L = RTANK =		_1	.05900	100	3860	3170	2580	2030	1350	1010	0720	0360	0000	0280	0000	1000	1350	1960	2550	3170	3730	4230	4630	5540	0336
PARAME 'RIC	6.380		S	Ö	. 6	0	6	ĕ	ŏ	۰.	0.	ŏ.	ē	ē	ō.	ă	0,	0.1	٥.٦	Ö	0	0	ō.	Ö.	0	ō.
PAR	ALPHAW ELV-1B RUD-U	5.00	CLN	01070	31080	00750	-,00320	001100	. 00360	.00450	01400	. 00330	.00330	.00270	. 00220	0.00240	. 00150	00110	06100.	.00530	.01080	.01450	06910.	.01680	.01340	00040
	749E	-5.00/	Շ	. 53000	34050	.27790	. 21930	. 16600	. 12090	.07760	.05720	.03780	.01850	00050	02070	04280	06240	07950	12450	17450	23060	28680	34420	- , 40520	51570	01979
		INTERVAL	CLM	09910	- 10000	08280	06190	04310	~. 02√50	02070	01+10	01060	00610	00160	00390	00470	01350	02020	03:50	04880	06640	07950	10190	11210	10050	.00030
•		GRADIENT	ខ	. 10730	11550	11710	04611.	.12080	. 12110	. 12090	. 12120	. 12130	. 12120	12140	. 12190	. 12150	. 12170	. 12150	. 12130	. 12050	. 12030	.11790	.11580	.11380	10420	80000
	IN. XC IN. XC	RN/L00	ಕ	.46210		08+6+	.49030	02884.	.48530	. 48550	.48290	.48500	09484	.48360	.48390	06484.	.48570	.48340	۰۴8690	01784°	.49190	.48880	06784.	04084	04564.	00002
	1339.9100 .0000 190.7500	113/ 0 RN	ALPHAM	6.37000	6.37000	6.37000	6.37000	6.37000	6.37000	6.37000	6.37000	6.37000	6.37000	6.37000	6.37000	6.37300	6.37000	6.37000	6.37000	6.37000	6.37000	6.37000	6.37000	6.37000	6.3700C	. 00000
ATA	XHRP **	RUN NO.	BETA	-20.000	14.000	-12.000	-10.000	-8.000	-6.000	-4.000	-3.000	-2.000	-1.000	000	1.000	2.000	3.000	4.000	6.000	8.000	10.000	12.000	14.000	16.000	20.000	GRADIENT
REFERENCE DATA	5500.0000 SQ.FT. 327.7800 IN. 2348.0000 IN.		o	36.280	36.120	36.080	36.050	36.030	36.010	36.000	35.990	35.990	35.990	35.990	35.990	35.990	35.990	36.000	36.010	36.030	36.050	36.080	36.120	36.170	36.260	

3
-
CAI
1
DATA
FORCE
SOURCE F
ABULATED
TABU
25
Ź
5
DATE 15 NOV

DATE 15 NOV 75	TABULAT	TABULATED SOURCE FORCE DATA		- CA11 (UMAL1146	146)				PAGE	109	
		CA11UMAL	CAIIUWALII46(EXT)KIHI5.6V9.ICI	15.6v9.1C1	AT85AT87 T28.1	7 728.1		(RG0114)	NON 11)	. 27 X	
REFERENCE DATA	DATA						PAR	PARAMETRIC DA	DATA		
SREF = 5500.0000 SQ.FT. LREF = 327,7800 IN. BREF = 2348.0000 IN. SCALE = .0400	XMRP YMRP ZMRP	. 1339.9100 . 0000 . 190.7500	IN. YC IN. YC IN. ZC			E PE	ALPHAM 1 ELV-1B RUD-U	12.790 SI.	STAB EELÝ-OB ERUD-L ERTANK E	0000 0000 0000	
	RUN NO.	114/ 0 RN/L	ال ∗ .00	GRADIENT	GRADIENT INTERVAL -	-5.00/	5.00				
o i	BETA	⋖ ;	5	8	S.H.	ζ	CLN	CSL			
35.370 36.260	-20.000		.93670	. 20870	13040	39500	01030	05430			
36.210	-14.000	9	94520	20960	- 17450	33480	00650	.04700			
36.150	-10.000		. 95850	21310	14310 14310	21930	00240	.03260			
36.120	-8.000	2	. 96030	. 21 360	11920	. 16510	04200.	. 0257			
36.100	-6.000	מַׁיִּ	01076.	.21510	11570	01210	00490	1610.			
050.95	-2.000		.97200	04512.	-,09530	04010	. 00350	. 00670			
36.090	-1.000	<u>~</u>	.97330	.21520	09050	. 02300	. 00250	. 00330	_		
36.080	000.	<u> </u>	. 27260	.21470	08780	00800	.00130	.000080			
36.080 36.080	- 000		0/5/8.	ייין מפקרות מפקרות	08350	00000	- 00050	00200 -			
36.090	3.000	2	.97420	26412.	0.09640	04520	00130	01000	_		
36.090	4.000	<u>5</u>	.97590	.21550	10390	06410	00240	01280	_		
36.100	6,000	δį	.97150	.21470	1:510	10260	00220	-,01980			
36.120	8.000	<u>ب</u> ز	.96960	.213+0	11920	15310	00000	-,02600			
36.170	2000		95590	02012	15760	26930	.00830	033390	- ~		
36.210	14.000	<u>~</u>	.94850	. 20900	18040	-, 32530	09800	04690	_		
36.250	16.000	<u>م</u> ن	.93690	. 20650	19310	38020	.00800	05330	_		
36.350	20.000	_	. 88570	19490	14460	50690	.01060	06520	-		
	GRADIENT	•	. 00070	. 03002	+5000°·	61720	86000 -	005	_		

SREF ... LREF ... BREF ... SCALE ...

TABULATED SOURCE FORCE DATA - CALL (UMALILYS)

PAGE 110

10 2T VOI		000.9- 000.000.000.000.0000.0000.0000.00																									
VON +1)		4111																									
	DATA	STAB ELV-0B RUD-L RTANK		, c	05520	.04790	.04070	300	630	.0.030	01310	010	. Gü630	.00370	. 00060	1250	1650	010	310	960	690	390	0+1	1760	3430	06740	329
(RG0115)	PARAMETRIC DATA	.000 .000 .000		J								0.							01310								
	A	ALPHAM . ELV-IB . RUD-U .	5.00	CLN	01500.	04500	.00600	.00780	.01200	.01130	. 00950	04/00.	06400	00300	.00070	00150	-, 00340	00620	00790	01060	01060	00880	06+00	00520	00610	00370	00220
728.1		₹ 28₽	-5.00/	٢.	37470	.31520	. 26030	. 20200	. 14830	0,501.	06/40	.05250	.03650	.02360	0860 .	00650	02440	~.03790	05290	09030	13560	16350	24740	30010	. 35760	48380	01507
AT86AT87 T28.			GRADIENT INTERVAL .	HJC.	16790	16420	14820	13350	11490	- 10910	08860	-, 09230	08240	07980	07920	07910	08430	09170	09580	10230	11380	12910	15000	17430	-,18550	0 1 1 4 4 4 0	.00018
CALIUMALII46(EXT)KIHI5.1V9.1CI			GRADIENT	00	. 20700	. 20940	.21200	.21150	.21380	00+100	.61570	21400	21230	.21310	. 21210	. 21300	.21270	02+15.	.21270	.21240	.21170	.21050	0×602.	. 20620	. 20500	. 19370	00003
EXTIKIH		υυυ	00.	ر و و و	92990	94450	95340	95160	96150	2000	00895	06896	96360	96550	6520	97050	0+696	37560	6580	36430	96300	5800	95570	93980	93+90	8110	9+000
NL 11460		N. X.	RN/L =	ಕ	o o	o.	ວຸ	σ.	ຕ. ເ	j.	n.	ָרָ נְּ		ָם פֿי	•	•	•	•	•	•	•	•	•	•	ο.	В.	٥.
CALIUM		1339.9100 .0000 190.7500	115/0	ALPHAM	12.78000	12.78000	12.78000	12.78060	12.78000	16. /8009	12. 78000	16. 78000	12.78000	12.78000	12.78000	.2.78000	12.78000	12.78000	12.78000	12.78000	12.78000	12.78000	12.78000	12.78000	12.78000	12.78000	00000.
	ATA	XYFRP YFFRP ZHRP	RUN NO.	BETA	-16.000	-14.000	-12.000	-10.000	-8.000	9.000	000	-3.000	-2.000	-1.000	000	. 000 	≥.000	3.000	4.000	6.000	8.000 8	10.000	12.000	14.000	16.000	20.000	GRADIENT
	REFERENCE DATA	5500.0000 50.FT. 327.7800 IN. 2348.0000 IN.		0 35	38.38	33.200	36.170	36.140	36.120	36.100	36.030	36.030	35.080	35.080	36.080	36.080	36.080	36.090	36.090	36.100	36.110	36.130	36.160	36.190	36.230	36.340	

K
ş
ū
DATE

SREF LREF BREF SCALE

NOV 75 TABULATED		REFERENCE DATA	5500.0000 SQ.FT. XYRRP = 327.7800 IN. YYRRP = 2348.0000 IN. ZMRP = .0+00	RUN NO. 1		35.150 -16.000 36.110 -14.000	070	040		000	066	990	990	990		36.000	36.010	36.020 SE	ig iG	N		ġ, L	Ta Sociation CRAD!	'A('JA	SE LI'	I.
SOURCE FORCE DATA -	CALIUNALI146(EXT)KIHI5.1V9.1C		1339-9100 IN. XC .0000 IN. YC 190.7500 IN. ZC	115/ 0 RN/L = .00	ਕ ∶	6.37000 .49840	.37000	.37000		.37000	0.3764. 00075.0	.37000	.37000	.37000	•	37000		.37000	•	. 3/000	.3/000	.3/000	85000. 00000.			
CALL (UMALITYS	HIS. IVB. ICI			GRADIENT					. 12060										. 12070			2011				
4 6)	AT86AT87			INTERVAL =	CLM 13000				02050													100	.00053			
	128.1		ALPHAM ELV-18 RUO-U 17ANK	-5.00/ 5.00	CY .				.10290							06810 -				. 25020	51400	0000	08064			
	(RGC	PARAMETRIC	6.380	6		. 00600													00430			0.100	00200			
	RG0116) (14	RIC DATA	STAB ELV-08 RUD-L		CSL . 05880	04830	.03760	03150	00610.	.01330	00680	.00360	. 00000	00330	02600	01260	.01870	02490	03190	03/60	บาร์ เการ์ เการ์	08050				
PAGE 111	NOV 75		-2.000 .000 .000																							

,

PAGE 112

-2.000 .000 .000 .000 72 VON +1 STAB ELV-08 RUD-L RTANK PARAMETRIC DATA (RG0117) 2.080 .000 .000 .000 ALPHAM = ELV-18 = RUD-U = 1TANK = 5.00 -5.00/ AT86AT87 T28.1 GRADIENT INTERVAL CALIUMAL 1146 (EXT) KIHIS. 1V9. ICI 8 **8**58 = 1339.9100 IN. .0000 IN. = 190.7500 IN. RN/L 117/ 0 Se No. REFERENCE DATA 5500.0000 SQ.FT. 327.7800 IN. 2348.0000 IN. SREF LREF BREF SCALE

CSL 04990 03080 03080 03080 00253 01410 00250 00050 00 CLN .00230 .00240 .00240 .00120 .001240 .001240 .00550 .0050 .005 CY 38300 38120 381300 381300 26340 10830 07160 0 08370 09580 09580 100580 10060 10070 18170 17840 115750 113790 113790 113790 112920 112920 112920 112920 112920 112920 113210 113210 113210 113210 113210 113210 113210 113210 BETA -20.000 -15.000 -16.000 -17.000 -19.00 36.0000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.0000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.0000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.0000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.0000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.0000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.0000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.0000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.0000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.000 36.0000 36.000

7

ž	NOV 75	TABULATE	BULATED SOURCE FORCE DATA	ı	CA11 C UMAL1146	146)				ã	PAGE
			CA11UMAI	CALIUMALII46(EXT)KIHIS	115.1 C1	AT86AT87	128.1		(RG0118)	8) (14 NOV	Š
	REFERENCE DATA	ATA						PAR	PARAMETRIC	DATA	
	327.7800 IN. 2348.0000 IN.	XMRP = ZMRP =	1339.9100 .0000 190.7500	N			A.E.	ALPHAM = ELV-18 = 11ANK =	2.080 .000 .000	STAB ELV-09 ERTANK	•
		RUN NO.	119/ 0 R	RN/L00	GRADIENT	GRADIENT INTERVAL =	-5.00/	5.00			
	ø	BETA	ALPHAM	7	8	CL _H	Շ	CLN	เรา		
	36.190	-20.000	2.08053	. 17800	.09250	09470	.39030	.05460	.03	.03850	
	35.100	-16.000	2.08000	.17560	05660.	05350	28920	08440.	20.0	. 03600	
	36.050	•	2.08000		10380	00000	19950	03550	20.	02400	
	36.030		2.08000	13900	. 10430	.02110	. 15850	.03030	8	.02080	
	36.010	•	2.08000	.13350	. 10430	.03960	. 12400	. 02540	0	.01660	
	35.990	•	2.08000	. 12670	.10350	.05810	0.08840	01970	ō.	.01290	
	35.990	•	2.08000	.12160	.10540	.08520	. 05920	.01390	00.	. 00920	
	35.990	•	2.08000	.11650	.10590	00101.	06440.	.01100	8.	670	
	35.990	•	2.08000	. 11460	. 10590	.10730	. 02720	.00760	00.	.00530	
	35.990	•	€.08000	.11290	.10610	. 11250	.01340	04700.	00.	290	
	35.990	900.	2 .08000	.11320	.10570	.11320	00050	.00120	8.	01100.	
	35.990	000	2.08000	11470	.10610	o₁601.	01470	00250	00070	070	
	35.990	8.000	2.08000	11560	. 10510	. 10330	02900	00593	- 00310	310	
	35.990	3.000	2.08000	05/11.	0,501.	01450.	01440.1	00000	00480	180	
	35.990	٠	€.08000	.1237	. 10536	. 08280	05830	01240	00700	700	
	36.000	6.000	2.08000	. 12800	. 10.50	.05680	08730	01850	01110	011	
	3€.010	•	2.08000	.13300	.10380	.03790	- 12090	02450	01460	420	
	36.020	•	2.08000	. 13760	.10410	0514O	15550	03000	01820	820	
	36.050	•	2.08000	. 14820	. 10290	u0740	- 19680	03540		500	
	36.070	14.000	2.08000	. 15460	.10060	03470	23710	04050	02550	550	
	36.100		€.08000	. 16240	0.880	05540	28270	04570		820	
	36.180	20.000	2.08000	. 15300	. 09010	08580	38420	-,05540	03310	310	
		GRADIENT	00000	.00025	10000	00069	01458	00353	00199	199	

The state of the s

DATE 15 NOV 75

SREF ... BREF ... SCALE ...

-2.900 .000 .000 ov 75 vo PAGE 113

The season of th

SREF LREF BREF SCALE

TABULATED SOURCE FORCE DATA - CAII (UMALII46)

ប CALIUMAL1146(EXT)K1H15.1

PAGE 114

14 NOV 75 PARAMETRIC DATA (R00119) AT86AT97 T28.1 REFERENCE DATA

-8.000 .000 .000 6.380 .000 .000 5.00 ALPHAH ELV-1B 17ANK -5.00/ GRADIENT INTERVAL 90. X2X RN/L = 1339.9100 IN. 0000 IN. 190.7500 IN. 190.7500 IN. 0 119/ RUN NO. 550C.0000 SQ.FT. 327.7800 IN. 2348.JD00 IN.

NOV 75	TABULAT	ED SOURCE FO	CE DATA -	TABULATED SOURCE FORCE DATA - CAII (UMAL1146	146)				
		CAI IUMAL	CALIUMALII46(EXT)KIHI5.1	н15.1 с1	AT86AT87 T28.1	128.1		(RG0120)	6
REFERENCE DATA	ATA						PAR	PARAMETR1C	DATA
5500.0000 SO.FT. 327.7800 IN. 2348.0000 IN.	XMRP YMRP = 2MRP =	1339.9100 .0000 190.7500	IN. XC IN. YC IN. ZC			49 <u>;</u>	ALPHAM = 1 ELV-18 = 17ANK =	. 000 . 000 . 000	STAB ELV-I
	RCN NO.	120/ 0 RN/L	رر ≠ .00		GRADIENT INTERVAL =	-5.00/	5.00		
c	BETA	AL PPAN	d	00	r H	Շ	CLN	155	
36.310	-20.000	12,78000	.88730	20120	14760	42310	.04660	.07	050
35.220	-16,000	12.78300	93090	.21290	17210	30430	04060	85°.	560
36, 190	-14.000		0+9+6	.21700	15960	.25000	.03660	ð.	780
36.160	-12.000	Ğ	.94870	.21710	13830	.20050	.03300	001+0	000
36.130	-10.000	12.78000	015+6.	. 21560	11970	. 15640	. 02870	.03	360
36.110	-8.000		.96010	. 21530	09890	01611.	02470	. O.	200
36.100	-6.000		.95770	.213:0	09340	. 08470	.01970	<u>.</u>	086
36.030	-4.000	_	.95880	.21190	08130	.05700	01+10.	0.	390
36.080	-3.000		.95380	.21170	07320	.04330	.01070	.0.	040
36.080	-2.000		. 96420	.21210	06530	.03130	.00700	00.	720
36.080	-1.000		. 96510	.21240	06130	. 02080	.00330	00.	360
36.080	000.		.96740	.21190	05770	.01050	0.000+0		070
36.080	1.000	•	. 96680	.21170	05950	00170	00450		280
36.080	€.000		. 96860	.01240	06330	01410	00820		550
35.080	3.000	12.78200	05830	. 21250	07033	02330	0.115.		3/6
36.093	600.4		. 56660	.21280	0.820.	0.5840	00410		מ מ מ
26.100		12.78000	. 55820	.21450	08930	06850	02110		ວຸດ
301 32	8.000	12.78000	. 96600	.21340	09450	09930	02520		0/0
36.120	10.000	12.78000	. 95640	.21350	- 10970	13580	03160		ے اور اور
36.140	12.000	12.78000	. 94890	.21280	13580	17710	03560		010
36.170	14.000	12.79000	. 94280	. 21240	16640	22473	0.040		730
36.200	16.000	12.78000	.93190	. 20950	18010	27430	07 -10		350
	20.000	12.78000	. 88550	19810	16270	38360	05060		ر ا ا
o t C	GRADIENT	. 00000	01100	000010	.00033	01161	00368		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \

ORIGINAL PAGE IS OF POOR QUALITY

-2.000 .000 .000

PAGE 115

27 VON 41)

RIC DATA

**

DATE 15 NOV 75

The same of the same

.

CAII
1
DATA
FORCE
Š

Frankling to the state of the s

900 PAGE 116 C 14 NOV 75 RUD-U PARAMETRIC DATA CSL 000050 000030 000100 000120 000140 000110 000110 000110 000110 000110 (RG0121) 888 CLN 000220 000240 000240 000240 000270 00170 00170 00170 00170 00170 00170 00170 00170 00170 00170 -5.00/ 5.00 BETA RUD-L RTANK -.00390 -.00400 -.00140 -.00140 -.00010 -.00010 -.0002 AT86AT87 T28.1 . GRADIENT INTERVAL - 01190 0340 0350 06350 06350 06350 06350 115350 11 (UMAL 1146) V9.1CI CD 113893 110710 110710 110530 110530 110710 100710 8 CA11UWAL1146(EXT)K1 RUN NO. 121/ 0 RN/L = TABULATED SOUR ALPHAM
-4, 470
-2, 280
-2, 280
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100
-2, 100 REFERENCE DATA 5500.0000 SO.FT. 327.7800 IN. 2349.0000 IN. 36.030 37 DATE 15 NOV 75 SREF ... LREF ... BREF ... SCALE ...

SCALE SCALE

S NOV 75	TABULATED		SOURCE FORCE DATA - (- CA11 (UMAL1146	146)					PAGE	117
		CALIUM	CALIUMALI146(EXT)KIH15.1V9.1C2	115.179.102	AT86AT87 T28.1	128.1		(RG0122)	_	14 NOV 7	. ST
REFERENCE DATA	DATA						PAR	PARAWTRIC	CATA		
= 5500.0000 SQ.FT. = 327.7800 IN. = 2348.0000 IN.	XHRP YHRP ZHRP	. 1339,9100 .0000 . 190,7500	N. 4C			4 ₽%;	ALPHAH = ELV-1B = RUD-U = 11ANK =	6.380 .000 .000	STAE ELV-08 RUD-L RTANK	φ	-2.000 .000 .000
	RUN NO.	122/ 0	RN/L00	GRADIENT	GRADIENT INTERVAL .	-5.00/	5.00				
36.260 36.160	-20.000 -16.000	•	. 47340 . 49890	. 10580 . 11440	CLM 14540 13520	.5008° .3736°	. 00660 . 00690 . 00690	CSL . 05920 . 04920	0 0 0 0		
35.110 36.090 36.050	-14.100		09165 09165	11820	11440 08310 06370	. 31550 . 25420 . 19740	0,600.	03790	300		
36.030 36.010 36.010	90000	் ம் ம் ய		12070	- 04300	10470	01330	01950.	0.00		
36.000 36.000 36.000	-3.000 -1.000	ம் ம் ம் ம் ம		. 12010 . 11960 . 12010	01110 00720 00190	03350	. 00780 . 00590 . 00410	00.00.00.00.00.00.00.00.00.00.00.00.00.	000000000000000000000000000000000000000		
36.000 36.000 36.000 36.000	# # W P			05051. 05051. 05051.	001100 001700 000000 004710	- 03680 - 05860 - 06850					
36.030 36.030 36.050 36.110 36.150 36.250	10.000 12.000 14.000 20.000 CRADIENT	் வ்வ்வ்வ்வ்வ்	48990 49160 49160 49160 46390	11800 11800 11800 11800 11800 11800 11800 11800	- 04290 - 06780 - 09100 - 11870 - 14850 - 14220	- 15220 - 26610 - 25680 - 30563 - 37130 - 46850		05.00 03150 03150 03150 04180 05600 05600	70 730 730 730 500 550		

_
1146
C UMAL
1145
f
CATA
FORCE
SOURCE
BULATED
ABR

CAI IUMAL 1146 (EXT) KIH15.6V9.1C2 ATGEATB7 T28.1

(RUDIES) (14 NOV 75)

	-2.000 .000 .000																								
PARAMETRIC DATA	6.380 STAB000 ELV-08000 RUD-L000 RTANK		CSL 05790	.04920	00440.	.03830	.03520	08000	077.10	.01030	.00720	. 00350	. 00010	00310	00640	01020	01310	01930	02550	03210	03790	04230	04620	05530	00337
PARAM	ALP4AM = 6. ELV.18 =	5.00	CLN	01020	00990	00690	00320	04100	00+00	01+00	.00350	.00330	.00300	.00250	. 00220	. 00140	. 00140	.00180	06400.	.01050	01470	.01650	.01630	.01200	000+1
	ALP RUC 170	-5.00/	CY	39980	.33860	.28090	. 2238	00001.	02/70	.05740	.03770	.01800	00070	02100	04180	06000	08100	12380	17180	22900	28650	34250	39820	51660	01972
		GRADIENT INTERVAL .	CLM - 10720	11190	10210	08510	05410	04/200	05050	01450	01380	00380	00110	00330	00560	01210	02000	03300	04870	06610	07910	09850	11920	10630	.00043
		GRAD 1EN1	CD - 0580	.11290	.11530	11780	.12050	04071.	06020	12110	. 12150	. 12120	. 12120	. 12150	. 12150	. 12190	. 12180	. 12140	12040	.11960	.11900	.11560	.11350	. 10520	60000.
	IN. YC	ال • .00	CL	.49280	.49730	49850	. 49650	0/064	04884	0+484	04684.	.48260	.48220	04284.	0+684.	06784.	.48300	.48390	.48950	. 489E0	00164	. +8680	. 48320	.45600	.0000.
	1339.9100 .0000 190.7500	123/ 0 RN/L	ALPHAM 6 37000	6.37000	6.37000	6.37000	6.37000	6.37000	6.37000	6.37000	6.37000	6.37000	6.37000	6.37000	6.37000	6.37000	6.37000	6.37000	6.37000	6.37000	6.37000	6.37000	6.37000	6.37000	00000.
ATA	XMRP ** YMRP ** ZMRP **	PCN NO.	BETA -20 DOD	-16.000	-14.000	-12.000	-10.000	900	-4.000	-3.000	-2.000	-1.000	000.	1.000	ح. 2.000	3.000	4.000	6.000	8.000	10.000	12.000	14.000	16.000	20.000	GRADIENT
REFERENCE DATA	5500.3000 SQ.FT. 327.7800 IN. 2348.0000 IN.		0 <u>1</u>	36.170	36.120	36.090	36.060	20.030	36.000	36,000	36.000	36.000	36.000	36.000	36.000	36.000	36.010	36 020	36.030	35.050	36.090	36.130	36.170	36.270	
	SREF LREF BREF SCALE																								

SOURCE
TABULATED
Ł.
Š
<u>ب</u>

÷:	NOV 75	TABULATED		RCE FORCE	DATA - C	SOURCE FORCE DATA - CAII (UMALII46	146)					PAGE	911	თ
			5	11 URWL 114	6(EXT)KIH	15.6V9.1C2V	CATIGMALII46(EXT)KIHIS.6V9.IC2VII AT86AT87 T28.1	128.1		(R60124)	-	14 NOV	57	_
	REFERENCE DATA	ATA							PA	PARAMETRIC	DATA			
	5500.0000 SQ.FT. 327.7600 IN. 2348.0000 IN.	XHRP YHRP ZHRP	1339	339.9100 IN. .0000 IN. 190.7500 IN.	000 000			498E	ALPHAH = ELV-18 = RUD-U = ITANK =	6.380 .000 .000	STAB ELV-09 HUD-L RTANK		-2.000 .000 .000	2828
		PLN NO.	124/ 0	RN/L	00.	GRADIENT	GRADIENT INTERVAL =	-5.00/	5.00					
	o	BETA	¥	ALPHAH	ಕ	8	C, T	Ç	טקע	185				
	36.330	-20.000	6.3	.37000	.46460	.11270	09860	. 59030	04920	. 06850	950			
	36.210	-16.000		37000	0.684	12040	15840	45970	- 04600	in o	830			
	36 150	-14.000	9	37000	. 49350	12190	09810	.38990	04080	SO.	05180			
	36.110	-12.000	•	37000	00464.	.12470	07600	32300	03420	20.0	04500			
	36.050	8-		37000	00000	12710	- 03680	19860	01850	M	03030			
	36.030	-6.000		37000	.48250	. 12810	01930	. 14300	01120	.02	02320			
	36.020	-4.000	•	37000	.48170	. 12950	01050	. 09560	00580	.01	01600			
	36.010	-3.000	•	37000	.47930	. 12870	00640	01070.	00330	.01220	220			
	36.013	-2.000	6.0	37000	.49270	. 12880	00270	.04750	00150	00800	908			
	36.010	-1.000		37000	. 481 30	12910	.00320	.02570	0000	00500	000			
	36.010	000.1) M	37000	.48350	12950	01500	02280	00300	07500	2078			
	36.010	2.000		37000	.48160	. 12880	.00330	04550	. 00500	00770	07.0			
	36.020	3.000	•	37000	. 483 90	. 13000	00310	06800	06900	01160	160			
	36.020	£.000		37000	.48430	. 12930	01.730	- 09581	02010.	01580	280			
	36.030	6.030	•	37000	.48580	01821.	0c.9kg	7.145/0	.01600	06350	550			
	20.00 00.00 00.00 00.00			00072	יים מניים	CECUT.	0,040.	000000	02120	0.050	200			
	35.050			20075	00001	0000		22150	0.2050		200			
	36.160	14,000		37000	49260	12130	- 05610	- 39070	04940	05100	000			
	36.210	16.000		37000	07774.	. 11860	11070	45580	.05250	05580	580			
	36.320	•	•	37000	.45580	.11000	10340	58050	.05230	06530	530			
		GRADIENT	Õ.	00000	04000.	60000.	.00028	02364	₹ <u>8</u> 100.	- 0	96£00			

HIGINAL PAGE IN

DATE

SPEF LREF BREF SCALL

7 " 4 "

SCALE SCALE

-	
•	
۲	
⋖	
2	

		ర	I JUHAL I I	46(EXT)KIH	CALIUMALIIYBIEXTIKIHIS.BV9.ICEVIO ATBBATB7 T28.I	10 AT86AT87	128.1		(RG012	(RG0125) (14 NJV 75	1 57 VC
REFERENCE DATA	DATA							Ą	PARAMETRIC DATA	DATA	
5500.0000 SA.FT. 327.7500 IN. 2348.0000 IN.	YARRO ZARRO	1339	1339.9100 IN. .0000 IN. 190.7500 IN.	999 999			₹ ₫&±	ALPHAH = ELV- 18 = RUD-U = ITANK =	6.380 . 200 . 000 . 000	STAB ELV-08 BRUD-L BTANK	. 000 . 000 . 000 . 000
	RUN NO.	125/ 0	RN/L	.00	GRADIENT	INTERVAL .	-5.00/	5.00			
0	BETA		PHAH	4	8	5	5	Z C			
	-16.00(7000	01161	. 11290		43830	- 03460		•60	
	-14.00		2000	0+66+	. 11550	-, 10310	37660	03130		370	
	-12.00(7000	.50440	.11870	0830	31126	02600		066	
	-10.00		7000	02464.	11960	05660	.24770	01980		530	
36.9 1 0	-8.000		6.37000	.49280	. 12090	04600	19090	01330	0.9940	0.7G	
	יים שר		7000	C - CG 3	00001	00020	12020	06700 -		700	

CSL 05460 04870 04870 04830 06830 01560 01150 00340 00340 00370 01430 01430 01430 01430 01430 01430 01430 01430 01430
3 666666666666666666666666666666666666
CLN
CY 43830 37660 31126 2470 13820 09210 06450 07530 07530 10680
CLM - 11310 - 10830 - 06830 - 06660 - 066660 - 06520 - 01520 -
CD 11590 11950 11960 12030 12230 12230 12230 12230 12230 12230 12230 12230 12230 12350 11370 11350 11350
CL 499400 499400 499400 499400 499400 499400 499400 49940
6.37000 6.37000 6.37000 6.37000 6.37000 6.37000 6.37000 6.37000 6.37000 6.37000 6.37000 6.37000 6.37000 6.37000 6.37000 6.37000
1.000 1.000
86 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8

_
ξ
=
JAKK
3
_
=
5
_
1
Z
DAT
ы
ORCE
ũ
μį
525
ಕ್ಷ
G
ATE

#EFFERIOR DATA ### 5500.0000 \$3.FT. XMPP = 1349.0000 IN. XT ### 27.7900 IN. XT ###	DATE 15 NOV 75		TABULATE	_	SOURCE FORCE DATA - CALL (UMALILYS CALLUMALLIYSINT)KI V9.1	111 (UMAL 11)	46) AT70AT71	128.1		(AG0072)	PAGE 18	121
STATE STAT	Æ	ERENCE DA	ATA						PAR	METRIC DATA		
ALPh. 4 CNT CAT CLMT CYT CRNT CBLT BETA ALPHAT - 4.45000960 .029920490000010 .00010 .00000 -4.31040009000090000010 .00000 -4.31040009000090000010 .00000 -4.3104000900003960 .00190 .00010 .00000 -4.3104000370 .0092000100 .00010 .00000 -4.3104000370 .003900110200150 .00010 .00000 -4.3104000370 .00390 .0010000100 .00000 .00000 .000002.1137000130 .00390 .00100 .00000 .00000 .000002.1370 .00100 .00370 .00290 .00100 .000000	5500.000 327.780 2348.000	50 SQ.FT.						RTAI	¥ب. <u>.</u>		• •	000
## CNT			RUN NO.			GRADIENT	INTERVAL =		5.00			
-2.27000950049000005000010 .00000 -6.5057000950		ALPh. A	CNT	CAT	CLMT	CYT	CYNT	CBLT	BETA	ALPHAT	140	
090 0092 0092 0090 .00000 .00000 .00000 -2.1:370 E.050 00370 01103 02:20 .00000 <th></th> <th>-4.450</th> <td>00960</td> <td>. 03960 . 03060</td> <td> 04900 03960</td> <td>00210</td> <td>. 000030</td> <td>00010</td> <td>00000</td> <td>-6.50570</td> <td>65870</td> <td></td>		-4.450	00960	. 03960 . 03060	04900 03960	00210	. 000030	00010	00000	-6.50570	65870	
2.060 00370 .02900 001103 00120 .00000 .000		090	00820	03000	02530	0+000.	01000	00000	.00000	-2.1:570	67210	
4.210 00390 .02860 00050 .00000 2.20310 5.350 00010 .02780 .00140 .00240 .0010 .00000 4.38230 8.500 .00010 .02780 .01440 .00240 .0010 .00000 4.38230 10.635 .00010 .02700 .07330 .0010 .00000 8.54700 10.635 .00500 .02500 .04670 .00250 .00010 .00000 8.54700 12.746 .00810 .02540 .07580 .00000 .00000 18.3560 14.880 .01:10 .02440 .07580 .00040 .00000 .00000 18.3560 16.940 .01510 .02440 .07680 .00050 .00000 .00000 17.07150 20.910 .02540 .07660 .00000 .00000 .07150 20.910 .02550 .07160 .00000 .00000 .07150 20.920 .02560 .07160 .00000 .00		2.060	00370	. 02900	01100	00:20	00000.	.00000	00000	.04730	58280	
5.360 00010 .02780 .01440 .00240 .00010 .00000 4.38230 8.500 .00010 .02580 .00160 .00010 .00000 6.54700 18.500 .00010 .02580 .00450 .00100 .00000 8.595.70 12.760 .00810 .02580 .04670 .00550 .00010 .00000 8.595.70 14.880 .0110 .02540 .07280 .00040 .00000 .00000 18.970 16.940 .01510 .02330 .06610 .00950 .00000 .00000 17.07150 18.950 .01510 .02560 .01000 .00050 .00000 .00000 17.07150 22.950 .02550 .11480 .0160 .00050 .00000 .00000 .00000 24.997 .03580 .01160 .00000 .00000 .21.140 .03580 .01660 .00000 .00000 .00000 .00000 .24.997 .02580		4.210	00390	. 02860	00050	. 00100	.00020	. 00010	00000	2.20310	69:60	
8.500 .00010 .02700 .673030 .00160 .00010 .00000 6.54700 10.635 .00500 .02580 .04670 .00550 .00010 .00000 8.696-7 12.760 .00510 .00660 .00000 .00010 .00000 8.696-7 14.880 .0110 .02440 .07280 .00940 .00000 .00000 12.9720 16.940 .01510 .02460 .07890 .00000 .00000 .00000 12.9720 18.950 .01710 .02860 .01000 .00050 .00000 .00000 17.07150 22.950 .02850 .11480 .01050 .00000 .00000 19.0E130 24.997 .03890 .11840 .00730 .00000 .00000 .11440 24.997 .03890 .01660 .00000 .00000 .00000 .11440 24.997 .03890 .01660 .00000 .00000 .00000 .11440 24.997 .		5.360	00010	.02780	01410.	04200.	01000.	00000.	00000.	4.38230	71503	
10.635 .00500 .02580 .00500 .00500 .00500 .00500 .00500 .00000 8.69643 14.2760 .00810 .02540 .05610 .00020 .00010 .00000 12.9752 14.380 .01510 .02330 .06610 .00940 .00000 .00000 .00000 12.9752 16.940 .01510 .02330 .06610 .00940 .00000 .00000 .00000 17.07150 20.910 .02530 .02540 .11480 .01050 .00010 .00000 .00000 17.07150 22.950 .02550 .12540 .00730 .00000 .00000 21.11440 24.993 .01937 .13840 .01160 .00000 .00000 .00000 21.11440 24.993 .01937 .13840 .01160 .00000 .00000 .00000 .00000 .00000 .00000 .1.1440 24.993 .01937 .13840 .01160 .00000 .00000 .00000 <th></th> <th>8.500</th> <td>.00010</td> <td>.02700</td> <td>. 03030</td> <td>. 00160</td> <td>.00030</td> <td>01000.</td> <td>00000</td> <td>6.54700</td> <td>-,71960</td> <td></td>		8.500	.00010	.02700	. 03030	. 00160	.00030	01000.	00000	6.54700	-,71960	
12.760 .00810 .02540 .05110 .00650 .00030 .00010 .00000 10.83520 14.880 .01110 .02440 .07280 .00940 .00000 .00000 12.97020 16.940 .01510 .02330 .00940 .00050 .00000 .00000 12.97020 16.940 .01510 .02520 .096940 .01000 .00050 .00000 .00000 17.07150 .00550 .02530 .02540 .11480 .01050 .00050 .00000 .00000 .00000 21.11440 .22.950 .02530 .02550 .12540 .00730 .00000 .00000 .00000 21.11440 .01160 .00070 .00000 .00000 21.11440 .01160 .00070 .00000 .00000 21.11440 .00085 .00580 .00580 .00580 .00580 .00580 .00580 .00580 .0000		10.630	.00500	. 02580	.04670	. 00250	. 00000	01000.	00000.	8.696+3	-,71340	
14.880 .01:10 .02440 .07280 .09330 .00040 .00000 .00000 12.97020 16.940 .01510 .02330 .08610 .00940 .00050 .00000 .00000 .15.07150 20.910 .02530 .02540 .11480 .01050 .00000 .00000 .17.07150 22.950 .02850 .02550 .12540 .00730 .00000 .00000 .21.1140 24.997 .03580 .01937 .1380 .01160 .00070 .00000 .21.1140 CKADIENT .00082 00019 .00580 .00015 .00000 1.00580		12.760	.00810	04520.	01150.	. 00650	.00030	. 00010	00000	10.83520	-,73950	
16.940 .01510 .02330 .08610 .00940 .00050 .00000 .00000 15.05ER0 .05.000 .00000 .00000 15.05ER0 .05.000 .00000 .00000 .00000 17.07150 .02540 .011480 .01050 .00010 .00000 .00000 19.0E130 .22.950 .02850 .02059 .12540 .00730 .00000 .000		14.380	01::0	02440	.07280.	. 00830	04000.	.00000	00000.	12.97020	07747	
18.950 .01710 .02260 .09690 .01000 .00050 .00000 17.07150 20.910 .02530 .02540 .11480 .01050 .00010 .00000 17.07150 22.950 .02550 .02550 .12540 .00730 .00000 .00000 .00000 21.11440 24.993 .03590 .01933 .13880 .01160 .00070 .00000 .00000 1.00590 .00000 .00000 .00000 1.00590		16.940	01510.	. 02330	01980	04600.	.00050	. 00000	00000	15.05680	77150	
20.910 .02530 .02540 .11480 .01050 .00010 .00000 .00000 19.0E130 .22.950 .02850 .02050 .12540 .00730 .00050 .00000 .00000 21.11440 .24.950 .03580 .01930 .13880 .01160 .00070 .00000 .00000 23.15830 .01160 .00002 .00000 .00000 .00000 .23.15830 .001801 .00082 .000000		18.950	.01710	. 02260	06960.	.01000	.00050	.00000	00000.	17.07150	78270	
22.950 .02850 .02053 .12546 .00730 .00060 .00000 .00000 21.11440 .24.993 .03580 .01939 .13880 .01160 .00070 .00000 .00000 23.15830 .04.0011 .0008200019 .00580 .00015 .00002 .00002 .00000 1.00580		20.910	.02530	. 02540	11480	.01050	01000.	. 00000	00000.	19.CE130	79300	
24.993 .03580 .01933 .13880 .01160 .00070 .00000 .00000 23.15830 GRADIENT .0008200019 .00580 .00015 .00002 .00000 1.00580		22.950	. 02850	. 02050	. 12540	.00730	. 30060	.00000	. 00000	21 . 13440	79850	
ENT .0008200619 .00580 .00015 .00002 .00000 1.00580		24.993	.03590	.01939	. 13880	.01160	.00070	.00000	. 00000	23.15830	80110	
	5	RADIENT	. 00082	00019	.00580	S1000.	.0000	20000.	00000.	1.00590	00408	

PAGE	14 NOV				ã	-,4531	5678	25.0	5622	5645	5792	5783(5677	5716	5718(5737	55991	. 5502	7.40	- 5520(5217	5009	4773(4625(4757	4843(. 0035
	(AG0073) (TRIC DATA	100 STAB 100 ELV-08 100 RTANK		ALPHAT	4.41800	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	4.10200	4.40330	4.39840	4.39940	4.39650	4.39740	4.39870	4.39710	4.39420	4.39140	4.39070	1.39360	4.40520	4.41210	4.41400	4.42410	4.42440	4.42380	4.43940	60041
	3	PARAMETRIC	18	5.00	ALPHAM	6.37000	6.37000	5 37000	6.38000	38000	38000	6.38000	6.38000	6.38000	6.38000	38000	38000	5.38000	5 38000	6.38000	5.38000	6.38000	6.37000	6.37000	6.37000	6.37000	00000.
	128.1		ALPHAW ELV-1B 17AM	-5.00/	CBLT	. 00100	.000060	0000	0,000	.00030	. 00020	01000.	.00020	01000.	01000.	00000	00000.	00000.	0000	00010	00020	00030	00040	00050	00060	00070	00002
,4 6)	AT70AT71			INTERVAL -	CYNT	. 02690	. 02320	00000	.01650	.01400	.0100	. 00660	.00500	.00320	. 00150	00050	00200	00370	- 06750	01070	01430	01680	01940	02170	02410	02750	00175
CA11 (UMAL1146	15.1			GRADIENT INTERVAL	CYT	. 12850	.08290	06590	.03060	. 02540	.01290	.00700	.00610	.00300	.00600	. 00130	04000.	00230	- 00630	06600 -	02120	02950	04330	05820	07610	11390	00164
1	CALIUMALII46(INT)KIHI5.		N. X. X. X. X. X. X. X. X. X. X. X. X. X.	رد = .00	CLMT	.01120	.00780	0.770	01690	.01750	.01910.	.01580	.01660	.01950	01860	.01530	.01360	.01280	01770	. 02300	. 02440	. 02190	. 02560	. 02130	.01620	.01380	00015
TABULATED SOURCE FORCE DATA	CALLUMAL		1348.0000 .0000 402.0000	73/ 0 RN/L	CAT	. 02520	.02900	02000	0.030.0	. 02990	.03000	.02970	.02920	02910	. 02880	.02890	07820.	02820	02870	. 02930	.02960	.02990	.03000	05830.	. 02780	.02350	00013
TABULATE		ATA	XMRP *	RUN NO.	CN1	03290	01940	-,00860	00790	00170	00020	00250	00210	.00130	DC100.	00070	05000	0.100	C4000.+	,	00510	01120	01600	02340	03100	05150	. 00020
		REFERENCE DA	0000 SQ.FT. 7800 IN. 0000 IN. 0400		BETA	-20.000	-16.000	-12.000	-10.000	-8.000	-6.000	-4.000	-3.000	-2.500	-1.000	000.		000	4,000	6.000	8.000	10.000	12.000	000.41	16.000	20.000	GRADIENT
DATE 15 NOV 75			SREF = 5500.0000 LREF = 327.7800 BREF = 2348.0000 SCALE = .0400		σ	35.150	36.050	36.000	35.980	35.960	35.950	35.950	35.940	35.940	55.930	35.930	30.340	25.040	35.950	35.950	35.960	35.980	36.000	36.020	36.050	36.130	

menute

FOR
SOURCE
TABULATED
57
Š
10

13				128.1		(AG0077)		n no Aou +
F. XMRP = 13 YMRP = 13 YMRP = 4 ZMRP = 13 ZMRP = 13 ZMRP = 13 ZMRP = 13 ZMRP = 13 ZMRP = 13 ZMRP = 13 ZMRP = 13 ZMRP = 13 ZMRP = 13 ZMRP = 13 ZMRP = 13 ZMRP = 13 ZMRP = 13 ZMRP = 13 ZMRP = 13 ZMRP = 4					PAA	PARAMETRIC	DATA	
RUN NO. 77/ CNT 05430 03260 032400	8.0000 IN. XT .0000 IN. YT E.0000 IN. ZT			ALPHAI ELV-11 RUD-1	1 * * *	900 000 000 000	STAB ELV-08 RUD-L RTANK	-1.930 .000 .000
CNT05430032600326005400	0 RN/L00	GRADIENT	INTERVAL =	-5.00/	5.00			
05430 03260 02400	CAT CLMT	CYT	TNYO	CBLT	ALPHAM	ALPHA	TAT	140
03260 02400		. 13620	. 02430	. 00100	2.08000	. 10350		.60670
02400	!	08380	. 02 1 20	.00000	2.08000	. 08560		.61550
00000		00000.	.01320	.00000	2,08000	.07		. 52600
220.1	ľ	.05160	.01680	.00050	2.08000	.06		.62180
01020	,	01170.	.01460	08000.	2.08000	1 +90 .		62330
00870	•	.02650	.01160	.00030	2.08000	.050		.63240
00000410	1	01810	01600.	00030	2.08000	. 050		.63850
10000320	.0296001030	.01030	.00610	.00000	2.08000	.05760		63590
00000630	•	.01030	00400.	.00020	2.08000	.056		.63590
10000360	•	0++00.	.00280	. 00020	2.08000	. 056		62910
00520	'	.00350	01100.	.00010	2.08000	. 050		62320
00+00'-		. 00150	00060	. 00010	2.08000	.03.		62130
00470		00220	00250	00000	2.08000	.05690		.61150
00'+60		00700	00+00.	00000	2.03000	ų. 0.		.50570
00400		01000	00590	.00000	2.08000	. 05		.59790
06400'- 000		01120		00010	2.08000	.05		59970
00000850				00020	2.08000	.050		.60340
0000 - 00080				00020	2.08000	.06		.61490
.00001440	0325000370	0+370	01590	00020	2.08000	(3870.		.63790
				0,000 -	2.38000	09680		63140
				04000 -	2,08000	09860		63360
				- 00000	0800	10330		64070
- 07520			0.25.0.0	08000	0800	-		- 63080
GRADIENT 00002	· ,·	4620 10584	•	+00000	00000	0003	, <u></u>	.00531

ORIGINAL PAGE IS

RUN NO. 78/ 0 RN/L = .00 GRADIENT INTERVAL = -5.00/ 5.00	030 12.00001160 .03240 .02350048900177000050 6.37000 0000 0000 0000 0000 0000 0000 000	030 12.00001160 .03240 .02350048900177000050 6.37000 0770 14.00002510 .03150 .01750068600220000050 6.37000 07350 15.00003420 .02960 .01620089900222000050 6.37000 0230 20.00006550 .02580 .01500135200255000070 6.37000 07840 17870 07850	030 12.00001160 .03240 .02350048900177000050 6.37000 0000 14.00002510 .03150 .01750068600202000050 6.37000 0000 15.00003420 .02960 .01520089900222000050 6.37000 0000 0.03420 .02960 .015000352000050 6.37000 0000 0.0250 0.00500 0.	SREF = 5500.0000 LREF = 327.7800 BREF = 327.7800 BREF = 23.8.0000 SCALE =	REFERENCE DATA SHEF = 5500.0000 SQ.FT. LREF = 327.7800 IN. SCALE =	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	CA11UMAL CA11UMAL 1348.0000 402.0000 402.0000 402.0000 03180 033180 02990 02990 02990 02990 02990 02990 02990 02990 02990 02990 02990 02990	#	A	YOUND TO THE TABLE TO THE TABLE TO THE TABLE TO THE TABLE TO THE TABLE TO THE TABLE TO THE TABLE TO THE TABLE TO THE TABLE TO THE TABLE TO THE TABLE TO THE TABLE TO THE TABLE TO THE TABLE TO THE TABLE TABLE TO THE TABLE TA	TERVAL5.0 CYNT CBL CONT CBL C	5 0000000000000000000000000000000000000	00000000000000000000000000000000000000	A A A A A A A A A A A A A A A A A A A		ALPHAT AL
197 0 M INVESTIGATION OF - 1/NO 0 /85	PETA CNT CVNT CNNT ALPHAM 240 -20.000 -02850 -01600 -14420 -02340 -00090 6.37000 120 -16.000 -01560 -0370 -01929 -02340 -00090 6.37000 030 -11500 -00884 -03120 -02080 -07370 -01910 -00090 6.37000 030 -00884 -03180 -01600 -01910 -00090 6.37000 -00090 6.37000 030 -00010 -03180 -01600 -01910 -00090 6.37000 -00090 6.37000 960 -00070 -01980 -01600 -01710 -00030 -00030 6.38000 6.38000 940 -2000 -00010 -01460 -01710 -00040 -00020 6.38000 940 -1.000 -00010 -01460 -00040 -00020 -01460 -00020 -00020 -00020 -00020 -00020 -00020 -00020 <t< th=""><th>BETA CNT CAT CLMT CYT CYNT CHANNEL COND. -20.00000850 .02590 .02690 .02690 .00090 6.37000 .116.000 .02690 .02690 .02690 .00090 6.37000 .116.00000890 .03070 .02690</th><th>PETA CNT CVNT CRAT 120 -20.000 -02850 -02000 -02990 -02040 -00000 6.37000 120 -16.000 -01500 -03720 -02990 -02040 -00000 6.37000 120 -000 -01500 -03120 -02000 -07370 -00000 6.37000 120 -000 -00110 -03120 -02000 -07370 -00000 6.37000 10 -000 -00110 -03120 -01600 -0740 -00000 6.37000 10 -000 -00110 -03120 -01600 -00000 6.37000 10 -000 -000110 -03050 -01600 -00000 6.37000 960 -6.000 -00020 -01460 -01090 -00000 6.38000 940 -7.000 -00020 -01460 -01460 -00000 6.38000 940 -7.000 -00020 -01460 -01460 -00000 6.</th><th></th><th></th><th>2</th><th></th><th>- 1/NG</th><th></th><th>TAGLAN</th><th>- INVOCATIVE</th><th>100</th><th>2</th><th></th><th></th><th></th></t<>	BETA CNT CAT CLMT CYT CYNT CHANNEL COND. -20.00000850 .02590 .02690 .02690 .00090 6.37000 .116.000 .02690 .02690 .02690 .00090 6.37000 .116.00000890 .03070 .02690	PETA CNT CVNT CRAT 120 -20.000 -02850 -02000 -02990 -02040 -00000 6.37000 120 -16.000 -01500 -03720 -02990 -02040 -00000 6.37000 120 -000 -01500 -03120 -02000 -07370 -00000 6.37000 120 -000 -00110 -03120 -02000 -07370 -00000 6.37000 10 -000 -00110 -03120 -01600 -0740 -00000 6.37000 10 -000 -00110 -03120 -01600 -00000 6.37000 10 -000 -000110 -03050 -01600 -00000 6.37000 960 -6.000 -00020 -01460 -01090 -00000 6.38000 940 -7.000 -00020 -01460 -01460 -00000 6.38000 940 -7.000 -00020 -01460 -01460 -00000 6.			2		- 1/NG		TAGLAN	- INVOCATIVE	100	2			
. 78/ 0 RN/L = .00 GRADIENT INTERVAL = -5.00/	EFTA CNT CYAT CYAT CYAT ALPHAM 240 -20.000 02850 .01600 .14220 .02320 .00070 6.37000 150 01500 .03370 .02600 .02990 .02040 .00070 6.37000 150 01500 .03122 .02600 .02730 .01910 .00050 6.37000 330 -12.000 0008u .03180 .01440 .04900 .01490 .00050 6.37000 980 00070 .03050 .01440 .04900 .01740 .00050 6.38000 980 00070 .02800 .01460 .01700 .00050 6.38000 940 00070 .02800 .01710 .00740 .00020 6.38000 940 00070 .02800 .01710 .00740 .00020 6.38000 940 00070 .02800 .01650 .00130 .00020 6.38000 940 00070 .0007	EFTA CNT CLMT CVT CYNT CRIT ALPHAM 240 -20.000 02850 .02590 .02320 .00090 6.37000 120 -16.000 02850 .02690 .02770 .00070 6.37000 120 -16.000 00884 .03120 .02600 .00070 6.37000 120 -12.000 00884 .03120 .01600 .01910 .00070 6.37000 100 -10.000 00070 .03330 .01440 .04000 .01920 .00070 6.37000 960 00070 .03330 .01440 .04000 .00020 6.38000 960 00070 .02890 .01460 .01800 .00020 6.38000 940 0007 .02890 .01460 .00070 .00020 6.38000 940 0007 .000210 .02890 .01460 .00040 .00020 6.38000 940 0007 .000210 .02890	EFTA CNT CVT CYNT CRLT ALPHAM 240 -20.000 02850 .02690 .02370 .00090 6.37000 120 -16.000 .02370 .02000 .02370 .02000 .02370 120 -16.000 .0084 .03120 .02000 .00070 6.37000 120 -12.000 .00880 .03120 .01600 .01700 .00070 6.37000 120 -12.000 .00089 .03120 .01600 .00070 6.37000 6.37000 120 -12.000 .00070 .02890 .0140 .00070 .00070 6.38000 960 -6.000 .00250 .0150 .00740 .00020 6.38000 940 -2.000 .00290 .01460 .00740 .00020 6.38000 940 -2.000 .00290 .01460 .00740 .00020 6.38000 940 -2.000 .00280 .01670 .00040 .00020			RUN NO.		RN/L .		RADIENT	INTERVAL .	-5.00/	5.00			
	PETA CAT CLMT CYT CVNT CNT ALPHAM 2*0 -20,000 -0,2850 -0,1600 -1,4220 -0,0090 6,37000 0.70 -16,000 -0,0285 -0,0690 -0,17370 -0,0090 6,37000 0.70 -19,000 -0,0084 0,3180 -0,1800 -0,0070 6,37000 0.70 -19,000 -0,0084 0,3180 -0,1800 -0,0070 -0,0070 0.80 -0,000 -0,0070 -0,0070 -0,0070 -0,0070 -0,0070 980 -8,000 -0,0070 -0,0070 -0,0070 -0,0070 -0,0070 980 -8,000 -0,0070	PETA CAT CLMT CYT CVNT CBLT ALPHAM 240 -20,000 -0,2850 0,0600 -1,4220 0,0090 6,37000 120 -16,000 -0,0850 0,2590 0,01730 0,0090 6,37000 130 -16,000 -0,084 0,3120 0,01600 0,0000 6,37000 100 -10,000 -0,0084 0,3180 0,1600 0,0000 6,37000 100 -10,000 -0,0080 0,333 0,1140 0,0000 6,37000 960 -6,000 -0,0070 0,0120 0,0000 6,37000 6,37000 960 -6,000 -0,0070 0,0130 0,0140 0,0000 6,37000 960 -6,000 -0,0250 0,2890 0,1140 0,0000 6,38000 940 -2,000 -0,0010 0,2890 0,1140 0,0000 6,38000 940 -1,000 -0,0010 0,0280 0,1130 0,0000 6,38000	PETA CAT CLMT CYT CYNT CRLT ALPHAM 250 -0.0000 -0.02590 -0.0240 -0.0090 6.37000 120 -0.0000 -0.0370 -0.0290 -0.0240 -0.0090 6.37000 170 -14,000 -0.0150 -0.0370 -0.0290 -0.0240 -0.0090 6.37000 030 -10,000 -0.0110 -0.0332 -0.1140 -0.0200 -0.0050 6.37000 980 -10,000 -0.00110 -0.0332 -0.1140 -0.0010 6.37000 6.37000 980 -0.00110 -0.0330 -0.1140 -0.0010 6.37000 6.37000 9.37000 9.37000 6.37000 9					J					2			
	EFTA CAT CLMT CYNT CNT ALPHAM 240 -16.000 -0.0290 .14220 .02320 .00090 6.37000 15.000 -0.0290 .02370 .02690 .02320 .00090 6.37000 17.000 0084° .03120 .02690 .07370 .00090 6.37000 17.000 0084° .03180 .01600 .05190 .00070 6.37000 10.000 0084° .03180 .01600 .01700 .00050 6.37000 980 00070 .02880 .01160 .00190 .01700 .00050 6.38000 960 00070 .02880 .01160 .02760 .00020 6.38000 6.38000 960 00270 .02880 .01160 .00740 .00020 6.38000 6.38000 960 00210 .02890 .01160 .00740 .00020 6.38000 6.38000 940 00210 .02890 .01160	EFTA CAT CLMT CYNT CNT ALPHAM 240 -2000 -0.02890 .14220 .02320 .00090 6.37000 15000 -0.02890 .02370 .02690 .02370 .00090 6.37000 15000 -0.0380 .03720 .02680 .07370 .00090 6.37000 17000 -0.0380 .03780 .01600 .07370 .00090 6.37000 17000 -0.0084 .03380 .01600 .07370 .01910 .00050 6.37000 980 -0.0070 .03070 .01600 .07400 .00060 6.37000 960 -0.0070 .03070 .01800 .02760 .00080 6.38000 960 -0.0070 .02890 .01710 .00460 .00020 6.38000 940 -1.000 .00040 .02890 .01770 .00460 .00020 6.38000 940 -1.000 .00100 .00280 .01870 .00020	PETA CNT CVT CVT CVNT CNT ALPHAM 2*0 -0.000 -0.02850 .01600 .14220 .00390 .00090 6.37000 120 -0.000 -0.01500 .03320 .02690 .07370 .01910 .00090 6.37000 033 -1.000 -0.01500 .03180 .01500 .00090 6.37000 030 -1.0000 -0.00110 .03320 .01490 .01700 .00050 6.37000 040 -1.0000 -0.00110 .03320 .01490 .01700 .00050 6.37000 050 -0.0000 .000110 .03320 .01490 .00090 6.37000 6.37000 960 -0.0000 .02890 .01460 .00330 .00020 6.38000 6.38000 940 -1.000 .00040 .02890 .01670 .00890 6.38000 6.38000 940 -1.000 .00190 .02890 .01690 .00030 6.38000													
	EVA CNT CVNT CVNT CNT APPHAM 2-0 100 -02690 .04600 .14220 .06320 .00070 6.37000 10 - 000 -015600 .03770 .02690 .07370 .00090 6.37000 11 000 -016800 .07370 .02690 .00070 6.37000 10 000 -00080 .03180 .01600 .0270 .00070 6.37000 10 000 -00010 .03230 .01490 .0730 .00070 .00070 6.37000 960 -00070 .00070 .01650 .02750 .01700 .00070 6.38000 960 -00070 .00070 .01700 .00740 .00020 6.38000 960 -00070 .02690 .01710 .00740 .00020 6.38000 960 -00070 .00070 .02700 .00020 .00020 6.38000 960 -00070 .00070 .01080 .01700 .00020 .00020	EVA CNT CVNT CVNT CNT APPHAM 120 -20 100 -02890 .01600 .14220 .02320 .00070 6.37000 120 -10 000 -01890 .02370 .02080 .02370 .00000 6.37000 030 -10 000 -01890 .02370 .02080 .02490 .00070 6.37000 030 -10 000 -00890 .01800 .02790 .00070 6.37000 030 -10 000 -00110 .03030 .01400 .00170 .00070 .0	EVA CAT CLMT CYNT CVNT CAT ALPHAM 2*0 -20.000 -0.02890 .01600 .14220 .02820 .00070 6.37000 15 -000 01500 .03770 .02080 .02770 .00070 .57700 15 -000 01500 .03120 .02080 .07370 .00070 .57700 15 -000 0084 .03180 .01600 .07370 .00070 .00070 .00070 .00070 .00070 .00070 .00050 6.37000 980 00070 00290 .01160 .01740 .00050 6.38000 960 00270 .02890 .01160 .00170 .00030 6.38000 960 00270 .02990 .01160 .00170 .00020 6.38000 960 00270 .02990 .01160 .00160 .00100 6.38000 940 1000 00210 .02890 .01180 .00180	,	. !											
	Colored Colo	240 -20100 -02590 CLMI CVII	240 -20100 -02590 CLMI CVII	•	į	,,,,			•			į				
	240 -20 000 -02850 01600 14220 02320 00000 6.37000 120 -16,000 -01500 03120 02000 02000 02000 05700 00000 6.37000 14,000 -01500 03120 01500 03120 00000 6.37000 6.37000 10,000 -00884 03180 01600 05190 070000 070000 070000 07000	240 -20 000 -02850 06590 14220 02320 00000 6.37000 120 -16,000 -01500 03120 02000 02290 02040 00000 6.37000 14,000 -01500 03120 01600 05190 01700 00000 6.37000 10,000 -00884 03180 01600 075190 00000 6.37000 10,000 -00884 03180 01600 07140 00000 6.37000 960 -10,000 -00810 03180 01440 07000 01700 00030 6.37000 960 -00010 02290 01460 01610 00030 6.38000 940 -00010 02290 01460 00040 00020 6.38000 940 -00010 02290 01460 00040 00020 6.38000 940 -1.000 02290 01480 00040 00020 00020 000020 00020 940	240 -20,000 -,02850 01600 14220 02340 00070 6,37000 120 -16,000 -,01500 03372 02600 09290 00070 6,37000 14,000 -,01500 03372 02600 03370 01600 00070 6,37000 300 -,00110 03303 01440 04000 01700 00050 6,37000 400 -,00110 03503 01440 04000 01700 00050 6,37000 960 -,8,000 -,00250 02680 01650 00030 6,37000 960 -,6,000 -,00250 01740 01740 00040 6,38000 960 -,000 0,000 0,000 0,000 6,38000 6,38000 970 -,000 0,000 0,000 0,000 0,000 6,38000 940 -,000 0,000 0,000 0,000 0,000 6,38000 940 -,000 0,000 0,000	a	BE TA	Ž	- Y	<u> </u>	2	-	<u> </u>	Ę	7776		=	A PLAT
FINAL PASS TAIL TAIL TAIL THE THE PASS	240 -20,000 -02856 01600 14220 02320 00290 02000 03770 00000 03770 00000 03770 00000 03770 00000 03770 00000 03770 00000 03770 00000 03770 00000 03770 00000 03770 00000 03770 00000 03770 00000 03770 00000 03770 000000 00000 00000 <	240 -20,000 -0285G .0160G .14220 .02320 .0200G .03770 .0200G .03770 .0200G .02770 .0200G .02770 .0200G .03770 .0200G .02770 .0000G .03770 .0200G .03770 .0000G .03770 .0000G .0000G <td>240 -20,000 -,02850 0,01600 1,4220 0,02320 0,0000 6,37000 120 -10,000 -,01500 0,01730 0,0290 0,02040 0,0000 6,37000 120 -10,000 -,00100 0,03120 0,01600 0,0290 0,01700 0,0000 6,37000 120 -,0000 -,00880 0,0140 0,0140 0,0000 6,37000 120 -,0000 -,00880 0,0140 0,0140 0,0000 6,37000 960 -,0000 -,00250 0,2880 0,1180 0,0140 0,0000 6,38000 960 -,0000 -,00210 0,2890 0,1180 0,0010 6,38000 6,38000 960 -,0000 -,00210 0,2890 0,1180 0,0010 6,38000 6,38000 9,0000 6,38000 6,38000 9,0000 6,38000 9,000 1,0000 1,0000 1,0000 1,0000 1,0000 1,0000 1,0000 1,0000 1,0000 1,0000</td> <td>,</td> <td>5</td> <td>5</td> <td>5</td> <td>•</td> <td><u>ر</u></td> <td>_</td> <td>ב</td> <td>בפר</td> <td>とくにして</td> <td></td> <td>ξ</td> <td>- 46674</td>	240 -20,000 -,02850 0,01600 1,4220 0,02320 0,0000 6,37000 120 -10,000 -,01500 0,01730 0,0290 0,02040 0,0000 6,37000 120 -10,000 -,00100 0,03120 0,01600 0,0290 0,01700 0,0000 6,37000 120 -,0000 -,00880 0,0140 0,0140 0,0000 6,37000 120 -,0000 -,00880 0,0140 0,0140 0,0000 6,37000 960 -,0000 -,00250 0,2880 0,1180 0,0140 0,0000 6,38000 960 -,0000 -,00210 0,2890 0,1180 0,0010 6,38000 6,38000 960 -,0000 -,00210 0,2890 0,1180 0,0010 6,38000 6,38000 9,0000 6,38000 6,38000 9,0000 6,38000 9,000 1,0000 1,0000 1,0000 1,0000 1,0000 1,0000 1,0000 1,0000 1,0000 1,0000	,	5	5	5	•	<u>ر</u>	_	ב	בפר	とくにして		ξ	- 46674
BETA CNT CAT CLMT CYT CYNT CBLT	14,000	10	10	0.00	200		CLCC			000		0				
BETA CNT CAT CLMT CYT COLT ALPHAM	120	120	120 -16.000 -01500 .03070 .02000 .02040 .00070 6.37000 033 -16.000 -0184° .03120 .02080 .07370 .01910 .00050 6.37000 -16.000 -00880 .03120 .02080 .07370 .01910 .00050 6.37000 -16.000 -00880 .03120 .01500 .01400 .01400 .00050 6.37000 960 -10.000 -00250 .01500 .02750 .01210 .00050 6.38000 960 -6.000 -00250 .01500 .02780 .00030 6.38000 940 -7.000 .00290 .01710 .00740 .00460 .00020 6.38000 940 -7.000 .00290 .01710 .00740 .00460 .00020 6.38000 940 -7.000 .00290 .01710 .00740 .00460 .00020 6.38000 940 -7.000 .00290 .01670 .00130 .00020	24.00	-40.000	0CR20	200.				מהלאכם.		5 37000		t	1 1777
BETA CNT CAT CLMT CYT CYNT CBLT ALPHAM	120 -16.00001500 .03370 .02280 .02290 .02290 .00050 6.37000 0370 -116.00001084 .03120 .02280 .07370 .011910 .00050 6.37000 0370 -116.00000084 .03180 .01180 .011800 .011800 .00050 6.37000 0380 -10.000000110 .03030 .011800 .02750 .011800 .00030 6.38000 6.3700000020 6.02890 .01280 .00280 .00210 .00030 6.380000.00290 .02280 .011800 .00030 6.38000 6.380000.00210 .02290 .01180 .000740 .00030 6.38000 6.380000.00210 .02290 .01180 .000740 .00030 6.38000 6.380000.00210 .02290 .01180 .000740 .00030 6.38000 6.380000.00210 .02290 .01180 .00030 6.38000 6.38000 6.380000.00190 .02290 .01180 .00030 6.38000 6.38000 6.38000 6.38000 6.38000 6.38000 6.38000 6.38000 6.38000 6.38000 .00030 6.38000	120 -16.00001500 .03370 .02200 .02290 .02240 .00050 6.37000 0370 -12.0000084° .03120 .02280 .07370 .01910 .00050 6.37000 0370 -12.00000880 .03180 .01840 .01870 .01910 .00050 6.37000 0380 -12.00000880 .03180 .01870 .01870 .01910 .00050 6.37000 0380 -12.00000810 .03380 .01870 .02750 .01210 .00030 6.38000 -12.00000250 .02880 .01830 .02750 .01210 .00030 6.38000 -12.00000250 .02890 .01870 .00080 .00080 6.38000 -12.00000210 .22830 .01870 .00080 .00080 6.38000 -12.00000210 .22830 .01710 .00740 .00080 6.38000 6.38000 -12.00000210 .22830 .01870 .00080 6.38000 6.38000 -10.00000210 .02830 .01870 .00080 6.38000 6.38000 -10.00000110 .00010 6.38000 6.38000 -10.000 .00030 .02830 .00010 6.38000 6.38000 6.38000 -10.000 .00030 .02830 .0003000220 .00010 6.38000 6.3800000220 .00030 .02830 .00030 6.38000 6.3800000220 .00030 6.38000 6.3800000220 .00030 6.38000 6.3800000220 .00030 6.38000 6.3800000220 .00030 6.3800000220 .00030 6.3800000220 .00030 6.3800000220 .00030 6.38000 6.3800000220 .00030 6.3800000220 .00000 6.3800000220 .00000 6.3800000220 .00000 6.3800000220 .00000 6.3800000220 .00000 6.3800000220 .00000 6.3800000220 .00000 6.3800000220 .00000 6.3800000220 .00000 6.3800000220 .00000 6.3800000220 .00000 6.3800000220 .00000 6.3800000220 .00000 6.3800000220 .00000 6.3800000220 .00000 6.3800000220 .000000 6.3800000220 .00000 6.3800000220 .00000 6.38000 -	15,000			10.	1			יינו	2170	0000	0000		•	0/10/1
PETA CNT CAT CLMT CYT CYNT CBLT ALPHAM 240 -20.00002850 .02590 .01600 .14220 .02320 .00090 6.37000	070 -14,000 -0084 03120 02080 03130 03120 <th< td=""><td>0730 -14.000 0084 .03120 .02080 .03730 .00050 6.37000 030 -16.000 .00110 .03120 .01440 .04000 .01180 .00050 6.37000 980 -6.000 .00070 .03550 .01550 .02780 .00030 6.37000 980 -6.000 .00070 .02890 .01460 .01710 .00030 6.38000 950 -00070 .02890 .01460 .00170 .00030 .00020 6.38000 940 -2.000 .00040 .02890 .01460 .00170 .00020 6.38000 940 -2.000 .00040 .02890 .01460 .00130 .00020 6.38000 940 -2.000 .00040 .02890 .01470 .00460 .00020 6.38000 940 -1.000 .00190 .02890 .01800 .00020 .00020 6.38000 940 -2.000 .00190 .02890 .01800 <t< td=""><td>0730 -14,000 -0084" 03120 07370 01910 00050 6.37000 030 -16,000 -00880 03120 01600 05130 01000 6.37000 980 -10,000 -00070 03250 01650 05290 01140 00030 6.37000 980 -6.000 -00070 02890 01460 07400 01030 6.37000 960 -00070 02890 01460 07030 00020 6.38000 940 -00070 02890 01710 000460 00020 6.38000 940 -00070 02890 01710 000460 00020 6.38000 940 -00070 02890 01710 000460 00020 6.38000 940 -1.000 00070 02890 01140 00010 6.38000 940 -1.000 00070 02890 01130 00010 6.38000 940 -1.000 00080 02890</td><td>36.120</td><td>15.000</td><td>1 0 500</td><td>7020</td><td></td><td></td><td>0000</td><td></td><td></td><td>27000</td><td></td><td>1</td><td>0.41.1</td></t<></td></th<>	0730 -14.000 0084 .03120 .02080 .03730 .00050 6.37000 030 -16.000 .00110 .03120 .01440 .04000 .01180 .00050 6.37000 980 -6.000 .00070 .03550 .01550 .02780 .00030 6.37000 980 -6.000 .00070 .02890 .01460 .01710 .00030 6.38000 950 -00070 .02890 .01460 .00170 .00030 .00020 6.38000 940 -2.000 .00040 .02890 .01460 .00170 .00020 6.38000 940 -2.000 .00040 .02890 .01460 .00130 .00020 6.38000 940 -2.000 .00040 .02890 .01470 .00460 .00020 6.38000 940 -1.000 .00190 .02890 .01800 .00020 .00020 6.38000 940 -2.000 .00190 .02890 .01800 <t< td=""><td>0730 -14,000 -0084" 03120 07370 01910 00050 6.37000 030 -16,000 -00880 03120 01600 05130 01000 6.37000 980 -10,000 -00070 03250 01650 05290 01140 00030 6.37000 980 -6.000 -00070 02890 01460 07400 01030 6.37000 960 -00070 02890 01460 07030 00020 6.38000 940 -00070 02890 01710 000460 00020 6.38000 940 -00070 02890 01710 000460 00020 6.38000 940 -00070 02890 01710 000460 00020 6.38000 940 -1.000 00070 02890 01140 00010 6.38000 940 -1.000 00070 02890 01130 00010 6.38000 940 -1.000 00080 02890</td><td>36.120</td><td>15.000</td><td>1 0 500</td><td>7020</td><td></td><td></td><td>0000</td><td></td><td></td><td>27000</td><td></td><td>1</td><td>0.41.1</td></t<>	0730 -14,000 -0084" 03120 07370 01910 00050 6.37000 030 -16,000 -00880 03120 01600 05130 01000 6.37000 980 -10,000 -00070 03250 01650 05290 01140 00030 6.37000 980 -6.000 -00070 02890 01460 07400 01030 6.37000 960 -00070 02890 01460 07030 00020 6.38000 940 -00070 02890 01710 000460 00020 6.38000 940 -00070 02890 01710 000460 00020 6.38000 940 -00070 02890 01710 000460 00020 6.38000 940 -1.000 00070 02890 01140 00010 6.38000 940 -1.000 00070 02890 01130 00010 6.38000 940 -1.000 00080 02890	36.120	15.000	1 0 500	7020			0000			27000		1	0.41.1
240 -20.00002850 .02590 .01600 .14220 .02320 .00090 6.37000	070 -14,000 0084 .03120 .02080 .07370 .01910 .00050 6.37000 030 -12,000 00880 .03180 .01440 .00140 .00050 6.37000 980 -8.000 00070 .03650 .01500 .00040 6.38000 960 00070 .02880 .01300 .00230 .00020 .00030 6.38000 950 00070 .02890 .01460 .00930 .00020 6.38000 940 2000 .00040 .02890 .01710 .00460 .00020 6.38000 940 2000 .00210 .02890 .01740 .00890 .00020 6.38000 940 1000 .00210 .02890 .01480 .00280 .00020 6.38000 940 .1000 .00280 .01800 .00280 .00020 .00000 6.38000 940 .1000 .00140 .02890 .01800 .00100 6.38000 <td>070 -14,000 -0084° .03120 .02680 .07370 .01910 .00050 6.37000 030 -12,000 -00880 .01180 .01500 .05190 .01070 .00050 6.37000 000 -00070 .00130 .02750 .01210 .00030 6.38000 6.38000 960 -00070 .00250 .02890 .01460 .02760 .00020 6.38000 940 -00070 .00210 .02890 .01460 .00890 .00020 6.38000 940 -00070 .00210 .02890 .01480 .00890 .00020 6.38000 940 -00070 .00210 .02890 .01480 .00890 .00020 6.38000 940 .00070 .00190 .02890 .01800 .00110 6.38000 940 .00070 .00190 .02890 .01800 .00110 6.38000 940 .00070 .00190 .02890 .01800 .00290 <t< td=""><td>070 -14,000 0084° .03120 .02080 .07370 .01910 .00050 6.37000 030 12,000 00110 .03120 .01500 .05190 .01700 .00050 6.37000 000 00110 .03050 .01500 .02750 .01210 .00030 6.38000 960 00070 .02890 .01500 .02750 .001210 .00030 6.38000 960 00070 .02890 .01710 .00930 .00020 6.38000 940 2000 .00040 .02890 .01710 .00930 .00020 6.38000 940 2000 .00070 .02870 .01710 .00740 .00020 6.38000 940 100 .00070 .02870 .01710 .00030 6.38000 940 100 .00070 .00080 .00170 .00080 .00080 6.38000 940 1000 .00140 .02890 .01180 .00120</td><td></td><td></td><td>000</td><td></td><td></td><td></td><td>20.70</td><td>0.000</td><td>0,000.</td><td>0.000</td><td></td><td></td><td>2007</td></t<></td>	070 -14,000 -0084° .03120 .02680 .07370 .01910 .00050 6.37000 030 -12,000 -00880 .01180 .01500 .05190 .01070 .00050 6.37000 000 -00070 .00130 .02750 .01210 .00030 6.38000 6.38000 960 -00070 .00250 .02890 .01460 .02760 .00020 6.38000 940 -00070 .00210 .02890 .01460 .00890 .00020 6.38000 940 -00070 .00210 .02890 .01480 .00890 .00020 6.38000 940 -00070 .00210 .02890 .01480 .00890 .00020 6.38000 940 .00070 .00190 .02890 .01800 .00110 6.38000 940 .00070 .00190 .02890 .01800 .00110 6.38000 940 .00070 .00190 .02890 .01800 .00290 <t< td=""><td>070 -14,000 0084° .03120 .02080 .07370 .01910 .00050 6.37000 030 12,000 00110 .03120 .01500 .05190 .01700 .00050 6.37000 000 00110 .03050 .01500 .02750 .01210 .00030 6.38000 960 00070 .02890 .01500 .02750 .001210 .00030 6.38000 960 00070 .02890 .01710 .00930 .00020 6.38000 940 2000 .00040 .02890 .01710 .00930 .00020 6.38000 940 2000 .00070 .02870 .01710 .00740 .00020 6.38000 940 100 .00070 .02870 .01710 .00030 6.38000 940 100 .00070 .00080 .00170 .00080 .00080 6.38000 940 1000 .00140 .02890 .01180 .00120</td><td></td><td></td><td>000</td><td></td><td></td><td></td><td>20.70</td><td>0.000</td><td>0,000.</td><td>0.000</td><td></td><td></td><td>2007</td></t<>	070 -14,000 0084° .03120 .02080 .07370 .01910 .00050 6.37000 030 12,000 00110 .03120 .01500 .05190 .01700 .00050 6.37000 000 00110 .03050 .01500 .02750 .01210 .00030 6.38000 960 00070 .02890 .01500 .02750 .001210 .00030 6.38000 960 00070 .02890 .01710 .00930 .00020 6.38000 940 2000 .00040 .02890 .01710 .00930 .00020 6.38000 940 2000 .00070 .02870 .01710 .00740 .00020 6.38000 940 100 .00070 .02870 .01710 .00030 6.38000 940 100 .00070 .00080 .00170 .00080 .00080 6.38000 940 1000 .00140 .02890 .01180 .00120			000				20.70	0.000	0,000.	0.000			2007
PETA CNT CAT CLMT CYT CYNT CBLT ALPHAN 240 -20.00002850 .02550 .01600 .14220 .02320 .00090 6.37000 120 -16.00001500 .03070 .02000 .09290 .02040 .00070 6.37000	030 1000 1010	030 1000	980 -8000 -00110 03180 01440 04000 01170 00050 6.37000 980 -12.000 -00110 03180 01440 04000 011810 00050 6.37000 980 -8000 -00110 03180 011850 02750 011810 00050 6.38000 980 -8000 -00250 02890 01180 00070 00030 6.38000 980 -12.000 -00010 02890 01180 000740 00080 6.38000 980 -12.000 -00010 02890 01180 000740 00080 6.38000 980 -12.000 -00010 02890 01180 000740 00080 6.38000 980 -12.000 -00010 02890 01180 00080 000110 00010 6.38000 980 -12.000 00010 02890 01180 000110 000110 6.38000 980 -12.000 00010 02890 01180 0-00110 0-00110 6.38000 980 00010 000	75 070	מכים אורו	0.1000	01.00			2000	0.0.0	00000				0.0
PETA CNT CAT CLMT CYT CYNT CBLT ALPHAM 240 -20.00002850 .02590 .01600 .14220 .02320 .00030 6.37000 120 -16.00001500 .03070 .02000 .02290 .02040 .00070 6.37000	030 -12.000 -00880 03180 01600 05190 01700 00050 6.37000 10.000 -00010 03030 01440 07400 01480 00030 6.37000 960 -00010 03030 01650 02080 01650 0750 07030 6.38000 960 -00010 02290 01460 01080 00020 03800 950 -4.000 -00210 02290 01460 00040 00020 03800 940 -2.000 -00210 02290 01710 00740 00020 6.38000 940 -2.000 -00210 02290 01710 00020 00020 6.38000 940 -2.000 000210 02290 01710 00020 6.38000 940 -2.000 00280 01810 00180 00180 6.38000 940 -0019 00280 01810 00180 00010 6.38000 940 -0019	030 -12.000 -0088U 03180 01600 05190 01700 00050 6.37000 -10.000 -00070 03330 01640 07400 01480 063700 6.37000 -10.000 -00070 03830 01650 02085 00030 00030 6.38000 6.38000 960 -00070 02880 01460 01080 00020 6.38000 6.38000 940 -2.000 -000210 02890 01460 00040 00020 6.38000 940 -2.000 -00210 02870 01710 00040 6.38000 6.38000 940 -2.000 -00210 02870 01670 00040 6.38000 6.38000 940 -1.000 -00190 02870 01670 00010 6.38000 6.38000 940 -1.000 -00190 02870 01670 00010 6.38000 6.38000 940 -1.000 -00140 02870 01890 <	030 -12.000 -0088U 03180 01600 05190 01700 00050 6.37000 -10.000 -000110 03330 01440 04000 01480 063700 6.37000 -10.000 -00070 03330 01460 07140 00030 6.38000 6.38000 950 -4.000 -00610 02299 01460 01080 00020 6.38000 6.38000 940 -2.000 -00610 02299 01460 00020 6.38000 6.38000 940 -2.000 -00610 02299 01460 00020 6.38000 6.38000 940 -2.000 -00610 02290 01490 00620 00020 6.38000 940 -1.000 -00140 02290 01520 00110 6.38000 940 -1.000 -00140 02290 01520 00010 6.38000 940 -00140 02290 01520 00010 00010 6.38000	2	000.11	, 00a	urco.			73/0	01810.	nennn.	6.3/000		•	
PETA CNT CAT CLMT CYT CYNT CBLT ALPHAN 240 -20.00002850 .02590 .01600 .14220 .02320 .00090 6.37000 120 -16.00001500 .03070 .02000 .05290 .02040 .00070 6.37000 070 -14.0000084° .03120 .02080 .07370 .01910 .00050 6.37000	980 - 90.000 - 0.00110	960 -10.000 -0.0050 0.01940 0.02190 0.01480 0.0030 6.38000 -10.000 -0.0020 0.0250 0.02880 0.01840 0.02750 0.01840 0.0030 6.38000 -2.0007 0.02890 0.01860 0.02890 0.01860 0.0030 6.38000 -2.000 -0.00210 0.02890 0.01860 0.0030 0.0030 6.38000 -2.000 -0.00210 0.02890 0.0180 0.0030 0.0030 6.38000 -2.000 -0.00210 0.02890 0.0180 0.00330 0.0010 6.38000 -2.000 -0.00210 0.02890 0.0180 0.00280 0.0010 6.38000 6.38000 -1.000 -0.00210 0.02890 0.0180 0.00280 0.0010 6.38000 6.38000 -1.000 -0.00140 0.02890 0.0180 0.00280 0.0010 6.38000 6.38000 -1.000 -0.00140 0.02890 0.0180 -0.00390 0.00280 0.0010 6.38000 6.38000 6.38000 0.00890 0.02890 0.00890 -0.00390 0.00890 0.0	980 -8.000 -0.0070 0.0190 0.01	020 32	000 011	0000	0.40			000	0	1000	1			
PETA CNT CAT CLMT CYT CYNT CBLT ALPHAN 240 -20.00002850 .02590 .01600 .14220 .02320 .00090 6.37000 120 -16.00001500 .03070 .02000 .03290 .02090 .00000 6.37000 070 -14.0000084 .03120 .02080 .07370 .01910 .00000 6.37000	10.000 -10.000 -00110 03030 01440 04000 01480 63700 980 -8.000 -00070 03050 01650 02750 01210 00030 6.38000 950 -6.000 -000250 02890 01710 00740 00020 6.38000 940 -7.000 -00010 02890 01710 00740 00020 6.38000 940 -7.000 -00070 02890 01710 00740 00020 6.38000 940 -7.000 -00070 02890 01710 00740 00020 6.38000 940 -7.000 -00190 02890 01670 00020 6.38000 940 -7.000 00070 02850 01810 00010 6.38000 940 -7.000 00080 02850 01810 00010 6.38000 940 -7.000 00080 02850 01800 00010 6.38000 940 -7.000 <	980 -10.000 -00110 03030 01440 04000 01480 653700 980 -8.000 -00050 03050 01650 02750 01210 00030 653800 950 -4.000 -00050 02590 01710 00740 00610 00020 653800 940 -2.000 -00070 02590 01710 00740 00610 00020 653800 940 -2.000 -00070 02590 01710 00740 00610 653800 940 -2.000 -00070 02590 01710 00740 00610 653800 940 -2.000 00070 02790 01710 00020 63800 940 -2.000 00070 00110 00010 63800 940 -00140 026850 01810 00010 63800 950 -00140 026850 01830 00010 63800 950 -00140 026850 01830	10.000 -10.000 -10.400 01440 04000 01480 63700 980 -8.000 00070 .03850 .01650 .02750 .01210 .00030 6.38000 950 00070 .02890 .01750 .01710 .00030 6.38000 940 2000 .00070 .02890 .01710 .00740 .00610 .00020 6.38000 940 2000 .00070 .02890 .01710 .00740 .00610 .00020 6.38000 940 2000 .00071 .00070 .00070 .00020 .38000 940 2000 .00070 .00180 .00180 .00180 .38000 940 .0007 .00180 .01810 .00180 .00180 .38000 940 .00190 .02850 .01810 .00280 .00180 .38000 950 .00180 .02890 .01800 .00280 .00180 .38000 950 .00270	20.00	20.02	1.00000	. C.S.		•	2515	00/10.	ວຣິດດີດີ.	b . 5/000		7	0.504
BETA CNT CAT CLMT CYT CYNT CBLT ALPHAM 240 -20.00002850 .02590 .01600 .14220 .02320 .00090 6.37000 120 -16.00001500 .03070 .02000 .09290 .02040 .00070 6.37000 -14.0000084° .03120 .00600 .01700 .01050 6.37000 030 -12.00000880 .03180 .01600 .05190 .01700 .00050 6.37000	10.000 00110 .03530 .01440 .04000 .01480 .04004 6.37000 40.000 00070 .03550 .01550 .02750 .00210 .00030 6.38000 960 00070 .02890 .01460 .01080 .00020 6.38000 940 2000 .00071 .02890 .01470 .00740 .00600 6.38000 940 2000 .00071 .02870 .01710 .00740 .00620 6.38000 940 2000 .00071 .02870 .01770 .00850 .00170 6.38000 940 2000 .00071 .00170	960 -10,000 -10,100 -1	960 -6.000 -0.00250 .02880 .01370 .01210 .00330 6.38000 .02880 .01280 .01210 .00030 6.38000 .02880 .01280 .01280 .00030 6.38000 .02880 .01280 .00030 6.38000 .02880 .01280 .00030 6.38000 .02890 .01460 .01080 .00610 .00030 6.38000 .02890 .01280 .00030 .00030 6.38000 .02890 .01280 .00030 .00030 6.38000 .00030 .000210 .00030 6.38000 .00030 .000210 .00030 .00030 6.38000 .00030 .00030 .00030 .00030 6.38000 .00030 .00030 .00030 6.38000 .00030 .00030 .00030 6.38000 .00030 .00030 .00030 6.38000 .00030 .00030 .00030 .00030 6.38000 .00030 .00030 .00030 6.38000 .00030 .00030 .00030 .00030 6.38000 .00030 .00030 .00030 6.38000 .00030 .00030 .00030 6.38000 .00030 .00	000	000		1000					1	1 1 1 1 1 1 1		1	1 1 1
PETA CNT CAT CLMT CYT CYNT CBLT ALPHAN 240 -20.00002850 .02590 .01600 .14220 .02320 .00090 6.37000 120 -16.00001500 .03070 .02000 .09290 .02040 .00070 6.37000 070 -14.0000084 .03120 .02080 .07370 .01910 .00050 6.37000 030 -12.00000880 .03180 .01500 .05190 .01700 .00050 6.37000	980 -8.00000070 .03050 .01650 .02750 .01210 .00030 6.3800000070 .02880 .01300 .02080 .00930 .00020 6.380000002000020 .02880 .01300 .02080 .00930 .00020 6.380002.000000210 .02830 .01710 .00740 .00850 .00020 6.38000 .000202.000 .000210 .02830 .01710 .000460 .00030 6.38000 .000740 .00030 .00010 6.38000 .00030 .0	980 -8.000 00070 .03050 .01650 .02750 .01210 .00030 6.38000 950 -6.000 00250 .02880 .01460 .02080 .00020 6.38000 950 -3.000 00040 .02890 .01460 .00040 .00020 6.38000 940 -2.000 00040 .02890 .01460 .00460 .00020 6.38000 940 00040 .02870 .01470 .00870 .00020 6.38000 940 00040 .00270 .01800 .00100 6.38000 940 00140 .02870 .01800 .00100 6.38000 940 00140 .02850 .01800 .00100 6.38000 950 00140 .02850 .01800 .00340 .00010 6.38000 950 4.000 .00020 .02800 .00340 .00040 .00040 .00010 6.38000 950 4.000 .00270 .	980 -8.00000070 .03050 .01650 .02750 .01210 .00030 6.38000 .050010 .02880 .01300 .02080 .00930 .00020 6.38000 .050010 .02890 .01460 .00930 .00930 .00020 6.38000 .00010 .02890 .01710 .00740 .00930 .00020 6.38000 .0003000210 .02890 .01710 .00740 .00930 .00020 6.38000 .00030 .00010 .02890 .01710 .00740 .00030 .00020 6.38000 .00030 .0	200.00	-10.000	01.00	. 0505		•	0000	08410	U 5 D D D .		3	۲	44.50
PETA CNT CAT CLMT CYT CYNT CBLT ALPHAN 240 -20.00002850 .02590 .01600 .14220 .02320 .00090 6.37000 120 -16.00001500 .03070 .02000 .09290 .02040 .00070 6.37000 070 -14.0000084° .03120 .02080 .07370 .01910 .00050 6.37000 030 -12.00000110 .03030 .01440 .0480 .0180 .00040 6.37000	-8.00000070 .03050 .01650 .02750 .01210 .00030 6.380000007000070 .02890 .01300 .02080 .00030 6.3800000070 .02890 .01300 .02080 .00030 6.38000 6.3800000070 .02890 .01710 .00740 .00610 .00020 6.38000 6.380002.00000070 .02890 .01710 .00740 .00850 .00030 6.38000 6.380002.00000190 .02890 .01670 .00890 .00330 .00010 6.38000 6.3800000190 .00880 .00880 .00010 6.38000 6.3800000190 .00880 .00880 .00010 6.38000 6.38000 6.3800000140 .00880 .00880 .00010 6.38000 6.38	980 -8,000 -00050 01810 00020 6.38000 950 -6,000 -00050 02890 0180 00030 6.38000 950 -6,000 -00050 02890 01710 00740 00610 00020 6.38000 940 -7,000 -00040 02890 01710 00740 00460 00020 6.38000 940 -2,000 -000710 02890 01710 00740 00020 6.38000 940 -2,000 -00070 02890 01670 00280 00010 6.38000 940 -00070 -00140 02850 01810 -00270 00010 6.38000 940 -0007 02850 01810 -00270 00010 6.38000 940 -0008 02850 01810 -00270 00010 6.38000 940 -0009 02850 01830 -00270 00010 6.38000 950 4.000 00037	-8.00000070 .02890 .01850 .02750 .01210 .00030 6.380000007000070 .02890 .01800 .02890 .001800 .00280 .001800 .00280 .002800 .00280 .001800 .00280 .001800 .002800 .00	1000			1			,)	
E40 -20.000 02850 .01600 .14220 .02320 .00090 6.37000 120 -16.000 02850 .01600 .14220 .02320 .00090 6.37000 120 -16.000 0150 .03120 .02600 .0270 .02040 .00070 6.37000 030 12.000 00884 .03180 .01600 .05170 .00050 6.37000 000 00884 .03180 .01600 .05170 .00050 6.37000 000 00110 .03080 .01440 .04000 .01480 .01480 .01490	960 -6.00000250 .02880 .01300 .02080 .00930 .00020 6.38000 -3.00000250 .02880 .01710 .00740 .00830 .00020 6.38000 -2.200000210 .22830 .01710 .00740 .00830 .00020 6.38000 -2.200000210 .22830 .01770 .00880 .00110 .00020 6.38000 -1.000 .00010 .02870 .01810 .00030 .00110 .00010 6.38000 -1.00000190 .02850 .0181000070 .00010 6.38000 6.38000 .00370 .00370 .00380 .003	950 -6.00000250 .02880 .01300 .02080 .00930 .00020 6.3800000250 .02890 .01460 .01080 .00030 .00020 6.380002.00000210 .02930 .01460 .01080 .00030 .00020 6.38000 -2.00000210 .02290 .01470 .00030 .00030 .00020 6.38000 -2.00210 .00210 .02870 .010870 .00030 .00010 6.38000 -1.00000190 .02870 .01180 .00130 .00110 .00010 6.38000 -1.00000190 .02850 .01181000070 .00030 .00010 6.38000 6.3800000190 .00370 .0003	950 -6.00000250 .02880 .01300 .02080 .00930 .00020 6.3800000250 .02890 .01710 .00740 .00650 .00020 6.38000000210 .02890 .01710 .00740 .00650 .00020 6.380002.00000210 .02890 .01710 .00740 .00740 .00020 6.38000 6.380001.000 .000210 .02890 .01710 .00280 .00110 .00020 6.38000 6.380001.000 .00070 .02890 .01800 .00110 .00010 6.38000 6.3800000140 .00280 .00110 .00020 .00140 .00020 6.38000 6.38000 6.38000 .00020 .00020 .00020 .00020 6.38000 6.38000 6.38000 6.38000 .00020 .00280 .00020 6.38000 6.38	55.980	-8.000	00070	0.305			ひつにつ	כועוכ	02000	S ZROOO	_	۲	しっちらた
PETA CNT CAT CLMT CYT CYNT CBLT ALPHAN 240 -20.00002850 .02590 .01600 .14220 .02320 .00090 6.37000 120 -16.00001500 .03070 .02000 .09290 .02040 .00070 6.37000 070 -14.0000084 .03120 .02080 .07370 .01910 .00050 6.37000 030 -12.00000110 .03030 .01440 .04000 .01480 .00050 6.37000 040 -10.00000110 .03030 .01440 .04000 .01940 .00050	960 -6.000 00250 .01300 .02080 .00330 .00020 6.38000 950 -7.000 .00040 .00290 .01460 .00610 .00220 .238000 940 -2.000 .00210 .02290 .01710 .00760 .00020 .238000 940 -2.000 .00210 .02290 .01740 .00250 .00020 .238000 940 -1.000 .00210 .02290 .01480 .00280 .00100 .238000 940 -1.000 .00190 .02870 .01520 .00110 .38000 940 -1.000 .00140 .02850 .01800 .00280 .00000 .38000 950 .00140 .00280 .01800 .00340 .00290 .00340 .00290 .00390 .00390 .00390 .00390 .00390 .00390 .00390 .00390 .00390 .00390 .00390 .00390 .00390 .00390 .00390 .00390 .00390	950 -5.00000250 .02880 .01300 .02080 .00930 .00020 6.38000 .0950 -5.000000210 .02990 .01460 .01080 .00610 .00020 6.38000 .0950 .00010 .02990 .01460 .00040 .00040 .00020 6.38000 .0940 .00010 .00010 .02940 .01710 .00090 .00330 .00020 6.38000 .09402.000 .00070 .02870 .01670 .00280 .00110 .00010 6.38000 .00070 .00010 .00070 .00010 6.38000 .00010	950 -6.000 00250 .01300 .02080 .00330 .00020 6.38000 950 00010 .02990 .01160 .01080 .00020 .53900 940 2000 .00040 .02990 .01170 .00450 .00020 6.38000 940 2000 .00070 .02870 .01180 .00100 6.38000 940 00190 .02870 .01180 .00100 .00010 6.38000 940 00190 .02870 .01180 .00110 .00010 6.38000 940 00140 .02850 .01180 .00110 .00010 6.38000 940 00140 .02850 .01810 00220 .00010 6.38000 940 00140 .02850 .01810 00340 .00010 6.38000 950 00140 .02850 .01810 00540 .00010 6.38000 950 00140 .00290 .01890 00340							2	2	00000	0.000.0		n	22010
PETA CNT CAT CLMT CYT CYNT CBLT ALPHAN 240 -20.00002850 .02590 .01600 .14220 .02320 .00090 6.37000 120 -16.00001500 .03070 .02080 .07370 .01910 .00050 6.37000 5070 -14.00000890 .03120 .01600 .05190 .01700 .00050 6.37000 500 -10.00000110 .03030 .01440 .04080 .01210 .00030 6.38000 980 -8.00000070 .03050 .01650 .02750 .01210 .00030 6.38000	950 -4.00000010 .02930 .01710 .00740 .00610 6.38000 6.38000 -2.00000010 .02930 .01710 .00740 .00650 .00650 6.38000 6.38000 -2.00000010 .02930 .01710 .00740 .00650 .00010 6.38000 6.3800000010 .00010 6.38000 .00010 6.38000 .00010 6.38000 6.3800000140 .00010 6.38000 6.38000 6.3800000140 .000140 .00220 .00010 6.38000 6	950 -4.00000010 .02990 .01710 .00740 .00610 .00020 6.38000 .00740 .00	950 -4.000 -00010 02930 01710 000740 000510 00020 6.38000 -2.000 -00010 02930 01710 000740 000510 00020 6.38000 -2.000 -000210 0.22940 01670 00020 00030 00020 6.38000 -2.000 -00010 0.02930 001520 00020 6.38000 -00010 0.02930 001520 00020 6.38000 6.38000 -00190 0.02930 001520 -00020 0.0010 6.38000 6.38000 -00190 0.02930 00190 -00290 0.0020 6.38000 6.38000 6.38000 -00190 0.02930 0.0190 -00290 0.0020 6.38000 6.380	אלה האס	בככ	ממנים ו	0000			5000	02000	0000	40000		٠	00000
PETA CNT CAT CLMT CYT CYNT CBLT ALPHAM 240 -20.00002850 .02590 .01600 .14220 .02320 .00090 6.37000 120 -16.00001500 .03120 .02080 .07370 .01910 .00050 6.37000 030 -12.00000884 .03180 .01600 .05190 .01700 .00050 6.37000 000 -10.00000110 .03030 .01440 .04000 .01700 .00050 6.37000 090 -10.00000110 .03030 .01450 .02750 .01210 .00030 6.38000	950 -4.00000010 .02990 .01460 .01080 .00610 .00020 6.38000 -3.00000210 .02930 .01710 .00740 .00850 .00020 6.38000 -3.000000210 .02930 .01710 .00740 .00850 .00020 6.38000 -1.000 .00010 .02890 .01870 .00890 .00110 .00010 6.38000 -1.00000190 .02890 .01870 .00130 .00010 6.38000 6.38000 -1.00000140 .02890 .018100007000290 .00010 6.38000 6.38000 -00030 .00370 .00370 .00030 .00390 .02890 .0181000370 .00030 6.38000 6.3	950 -4.00000010 .02990 .01460 .01080 .00610 .00020 6.38000 -3.00000210 .02930 .01710 .00740 .00740 .00020 6.38000 -3.000000210 .22930 .01710 .00740 .00740 .00020 6.38000 -1.000 .000210 .22970 .01870 .00880 .00110 .00010 6.38000 -1.00000190 .02870 .01880 .00280 .00110 .00010 6.38000 -1.00000190 .02850 .018100007000270 .00010 6.3800000270 .00370 .00020 6.38000 6.3800000270 .00370 .00380 .00380 .00030 6.38000 6.3800000270 .00030 .00030 .00030 6.38000 6.38000 10.000 .00030 .02930 .015500091000740 .00000 6.38000 6.38000 10.00000270 .02930 .01550003100013000030 6.38000 6.38000 10.00000270 .00270 .025200013000030 6.37000 6.38000 10.00000590 .03270 .02530013800133000030 6.37000 6.3700002530 .00330 .002300024000030 6.37000 6.37000 6.370000255000330025500003000030 6.37000 6.3700002550 .00031 .00031025500003000030 .0003000550 6.3700000550 6.3700000550 6.3700000550 6.3700000550 0.02580 .01550005500003000030 6.3700000550 0.0003100030000300003000550 0.0003100030000	950 -4.00000010 0.25990 0.01460 0.01080 0.00610 0.0020 6.380000002000020 0.0020 0.38000 0.0020 0.0020 0.0020 0.38000 0.00210 0.00220 0.00210	200.00	000.	00000.	. Octob		•	ממכו	06800.	. ממממי	0.38000	,	r	1975
PETA CNT CAT CLMT CYT CYNT CBLT ALPHAN 240 -20.00002850 .02590 .01600 .14220 .02320 .00090 6.37000 120 -16.00001500 .03120 .02080 .07370 .01910 .00050 6.37000 030 -16.00000880 .03120 .02080 .05190 .01700 .00050 6.37000 030 -16.00000110 .03030 .01400 .01400 .01400 .00030 6.38000 -9.00000070 .02080 .01550 .02080 .01210 .00030 6.38000 -6.00000250 .02880 .01300 .02080 .0030 .00030 6.38000	940 -2.000002100299001710010800045000020 6.38000	940 -2,000 -0,0040 -0,	940 -2.000002100299001710010800045000020 6.3800000210002100299001710008500033000020 6.3800000210002100021000210002100021000210002100021000210002100021000210002100021000010 6.380000021000210002100021000210002100021000210002100021000210002100021000220002100022000210002200021000220002100022000210 6.38000 6.3800000220002200022000210002200	מונים שצ	200	0.000	Č			000.	0.000				1	
PETA CNT CAT CLMT CYT CYNT CBLT ALPHAN 240 -20.00002850 .02590 .01600 .14220 .02320 .00090 6.37000 120 -16.00001500 .03070 .02080 .07370 .01910 .00050 6.37000 070 -14.00000890 .03120 .01500 .05190 .01910 .00050 6.37000 000 -10.00000110 .03030 .01440 .04090 .01210 .00030 6.38000 -8.00000070 .02880 .01300 .02080 .00930 .00020 6.38000 -5.00000250 .02880 .01300 .02080 .00930 .00020	940 -3.00000040 .02930 .01710 .00740 .00460 .00020 6.38000 -2.00000210 .22940 .01670 .00850 .00330 .00010 6.3800000070 .02870 .01670 .00280 .000110 .00010 6.3800000070 .02870 .01180 .00010 6.38000 6.3800000140 .00020 .02850 .0018000010 6.38000 6.3800000140 .00020 .02850 .0018100007000220 .00010 6.38000 6.3800000370 .02850 .018100034000340 .00000 6.38000 6.38000 6.3800000370 .02890 .0189000340 .00050 6.38000 6.38000 6.38000 10.0000 6.38000 6.38000 6.38000 10.0000 6.38000 6.38000 6.38000 6.38000 6.38000 6.38000 6.38000 6.38000 10.0000 6.38000 6	940 -3.00000040 .02930 .01710 .00740 .00460 .00020 6.38000 -2.000000210 .22340 .01670 .00850 .00330 .00020 6.3800000010 .02850 .01670 .00850 .00030 .00010 6.3800000010 .00020 .00280 .00010 6.3800000140 .00280 .018100007000220 .00010 6.38000 6.3800000140 .02850 .018100007000220 .00010 6.38000 6.3800000370 .00370 .00370 .00380 .00370 .00370 .00380 .00370 .00390	940 -3.00000040 .02930 .01710 .00740 .00460 .00020 6.38000 -2.00000210 .22940 .01670 .00850 .00330 .00020 6.38000 -2.00000070 .02870 .01670 .00850 .00330 .00010 6.3800000110 .00280 .00110 .00010 6.3800000140 .02850 .018100017000220 .00010 6.38000 6.3800000140 .02850 .018100034000220 .00010 6.38000 6.3800000370 .00370 .00580 .00580 .00580 .00010 6.38000 6.38000 6.38000 .00020 .02850 .001800034000340 .00010 6.38000 6.38000 6.38000 10.000 .00020 .02890 .018900173000540 .00010 6.38000 6.38000 10.00000270 .00210 .001300133000020 6.38000 6.38000 10.00000270 .00210 .0021000130001300013000130001300013000130001300013000130001300013000130001300013000130001300022000000 6.370000222000000 6.370000222000000 6.37000022200022000000 6.37000022200022000000 6.37000022200022000000 6.37000022200022000000 6.37000022200022000000 6.37000022200022000000 6.37000022200022000000 6.37000022200022000000 6.3700002220002200022000000 6.3700002220002200022000000 6.3700002220002200022000000 6.37000022200022000000 6.3700002220002200022000000 6.3700002220002200022000000 6.370000222000220 -	006.00	000.*-	0.000	EVAU.		•	1080	. 00610	02000	6.38000	•	Ň	39280
BETA CNT CAT CLMT CYT CYNT CBLT ALPHAM 240 -20.000 02850 .01600 .14220 .02320 .00030 6.37000 120 -16.000 01500 .02000 .02040 .00070 6.37000 030 -114.000 0084° .03120 .02000 .01910 .00050 6.37000 030 -12.000 00880 .03180 .01600 .01700 .00050 6.37000 000 00880 .03180 .01600 .04000 .01480 .00090 6.37000 980 -8.000 00810 .03050 .01440 .04000 .01480 .00290 .00200 6.38000 -9.000 00250 .02890 .01460 .01800 .00200 6.38000 -4.000 00010 .02890 .01460 .01600 .00610 6.38000	940 -1.000	940 -1.0000021002930017100033000120 6.38000002900021002930002300023000230002300023000020 6.3800000290 -1.000001900293000190029300011000010 6.3800000290	940 -2.000002100293001710002800033000020 6.38000002800021002990002800028000280002800028000280002800028000280002800028000280002800028000280002800028000280000140 6.38000 6.38000002800	25.0	000	0.000	1			i i						
PETA CNT CAT CLMT CYT CYNT CBLT ALPHAN 240 -20.00002850 .02590 .01600 .14220 .02320 .00090 6.37000 120 -16.00001500 .03070 .02000 .09290 .02040 .00070 6.37000 070 -14.00000890 .03120 .02080 .07370 .01910 .00050 6.37000 030 -12.00000110 .03120 .01400 .01400 .01400 .00050 6.37000 -10.00000110 .03050 .01400 .01400 .01210 .00030 6.38000 -5.00000250 .02880 .01300 .02080 .00210 .00030 6.38000 -4.00000070 .02990 .01460 .01080 .00030 .00020 6.38000	940 -2.00000210 .22340 .01670 .00850 .00330 .00020 6.38000 .00070 .00870 .01180 .00280 .00110 6.38000 6.38000 .00190 .02850 .00180 .00110 .00010 6.38000 .00190 .02850 .01810 .00170 .00220 .00010 6.38000 6.38000 .00370 .00370 .00340 .00340 .00380 .00010 6.38000 6.38000 .00370 .00370 .00590 .00380 .00010 6.38000 6.38000 .00370 .00590 .00590 .00590 .00010 6.38000 6.38000 .00090 .02930 .01590 .00170 .00070 .00010 6.38000 6.38000 .00090 .02930 .01590 .00170 .00000 6.38000 6.38000 .00090 .02930 .01730 .00170 .00010 6.38000 6.38000 .00090 .00290 .00250 .00070 .00010 6.38000 6.38000 .00090 .00090 .00090 .00090 .00090 .00090 6.38000 6.38000 .00090 .00090 .00090 6.38000 6.38000 .00090 .00090 .00090 6.38000 .00090 .00090 .00090 6.38000 .00090 .00090 6.38000 .00090 .00090 .00090 6.38000 .00090 .00090 6.38000 .00090 .00090 6.38000 .00090 .00090 6.38000 .00090 .00090 6.38000 .00090 .00090 6.39000 .00090 .00090 6.39000 .00090 .00090 6.39000 .00090 .00090 6.39000 .00090 .00090 6.39000 .00090 .00090 6.39000 .00090 6.39000 .00090 6.39000 .00090 6.39000 .00090 6.39000 .00090 6.39000 .00090 6.39000 .00090 6.39000 .00090 6.39000 .00090 6.39000 .00090 .00090 6.39000 .00090 6.39000 .00090 6.39000 .00090 6.39000 .00090 6.39000 .00090 6.39000 .00090 6.39000 .00090 6.39000 .00090 .00090 6.39000 .000900 .00090 6.39000 .00090 6.39000 .00090 6.39000 .00090 6.39000 .00090 6.39000 .00090 6.39000 .00090 6.39000 .00090 6.39000 .000900 6.39000 .00090 6.39000 .00090 6.39000 .00090 6.39000 .00090 6.39000 .00090 6.39000 .00090 6.39000 .00090 6.39000 .00090 6.39000 .00090 6.39000 .00090 6.39000 .00090 6.39000 .00090 6.39000 .00090 6.39000 .00090 6.39000 .00090 6.39000 .00090 6.39000 .000900 6.39000 .000900 6.39000 .000900 6.39000 .00090 6.39000 .00090	940 -2.00000210 .22340 .01670 .00850 .00330 .00020 6.38000 -1.000 .00010 .02870 .01180 .00280 .00110 .00010 6.38000 .0001000190 .02850 .01180 .00280 .00110 .00010 6.38000 .00010 1.00000140 .02850 .018100013000220 .00010 6.38000 6.38000 .00370 .00370 .00380 .00010 6.38000 6.38000 .00370 .00370 .0059000340 .00010 6.38000 6.38000 .00050 .00050 .00050 .00050 .00050 .00050 .00050 .00050 .00050 .00050 .00050 .00050 .00050 .00010 6.38000 6.38000 .00050 .00	940 -2.00000210 .22340 .01570 .00850 .00330 .00020 6.38000	20.040	-5.000	0.000	SUPPLIES .		•	05/0	.00460	02000		3	ī.	0696
EFTA CNT CAT CLMT CYT CYNT CBLT ALPHAM 240 -20.000 02850 .01600 .14220 .02320 .00030 6.37000 120 -16.000 01500 .03120 .02080 .07370 .01910 .00050 6.37000 070 -11.000 00880 .03120 .01500 .01700 .00050 6.37000 000 10.000 00110 .03330 .01440 .04000 .01480 .00040 6.38000 980 -8.000 00070 .02850 .01550 .01210 .00030 6.38000 -4.000 00070 .02890 .01460 .01093 .00020 6.38000 -4.000 00040 .02890 .01460 .01090 .00020 6.38000	940 -2.000 -0.0110 -0.0150 -0.0330 -0.0010 6.38000 940 -1.000 -0.0140 -0.0250 -0.0130 -0.0010 6.38000 940 -1.000 -0.0140 -0.2850 -0.1810 -0.0070 -0.0010 6.38000 940 -1.000 -0.0140 -0.2850 -0.1810 -0.0070 -0.0010 6.38000 950 -0.0140 -0.2850 -0.1810 -0.0070 -0.0010 6.38000 950 4.000 -0.0370 -0.2850 -0.0540 -0.0010 6.38000 950 4.000 -0.0370 -0.2930 -0.1550 -0.00540 -0.0010 6.38000 950 4.000 -0.0230 -0.1980 -0.1730 -0.0010 6.38000 950 6.000 -0.0240 -0.0130 -0.0010 6.38000 6.38000 950 10.000 -0.0240 -0.0150 -0.0010 6.38000 6.38000 950 -0.000 -0.0250	940 -2.000 -0.0030 0.0030 0.00020 6.38000 940 -1.000 -0.0010 0.26450 0.0130 0.0010 6.38000 940 -1.000 -0.0140 0.02850 0.1180 -0.0010 6.38000 940 -1.000 -0.0140 0.28850 0.1810 -0.0030 0.0010 6.38000 940 -1.000 -0.0140 0.28850 0.1810 -0.0030 0.0010 6.38000 950 -0.00370 0.02890 -0.0390 -0.02940 -0.00340 -0.0010 6.38000 950 4.000 0.00370 0.2890 -0.0130 -0.0010 6.38000 950 4.000 0.0050 0.2980 0.1980 -0.0150 -0.0010 6.38000 960 6.0060 0.0280 0.1980 -0.0150 -0.0010 6.38000 970 1.0060 0.0280 0.1980 -0.1050 -0.0010 6.38000 980 1.0000 0.0280 0.0	940 - 1000 - 00110 - 002870 - 001870 - 00280 - 00110 - 00010 - 00110 - 00010 - 00110 - 00010 - 00110 - 00010 - 00110 - 00010 -	6.50	600	0.00						1000) !
BETA CNT CAT CLMT CYT CYNT CBLT ALPHAM 240 -20.000 02850 .01600 .14220 .02320 .00030 6.37000 120 -16.000 01500 .02000 .02000 .00070 6.37000 030 -12.000 0084° .03120 .02000 .01910 .00050 6.37000 030 -12.000 00880 .03120 .01600 .01700 .00050 6.37000 980 -8.000 00110 .03030 .01440 .04000 .01710 .00050 6.38000 -10.000 00250 .02850 .01500 .00275 .01210 .00020 6.38000 -4.000 00010 .02890 .01460 .01040 .00020 6.38000 -4.000 00010 .02890 .01710 .00740 .00460 6.38000	940 -1.000 .00070 .02870 .01480 .00280 .00110 .00010 6.38000 .000000190 .002850 .0013000250 .00010 6.38000 6.38000 .000000140 .02850 .018100007000280 .00010 6.38000 6.38000 950 3.000 .00370 .02850 .018100034000380 .00010 6.38000 6.38000 950 4.000 .00370 .02890 .0185000340 .00000 6.38000 6.38000 10.000 .00270 .02890 .018500031000280 .00000 6.38000 6.38000 10.00000270 .02890 .028500173000020 6.38000 6.38000 10.00000890 .028700183000030 6.37000 10.00002850018900177000030 6.37000 112.000028510 .02850018900177000030 6.37000 112.000028510 .03870 .01850008900282000030 6.37000 6.37000 6.37000028510 .03820 .03	940 -1.000 .00070 .02870 .01480 .00280 .00110 .00010 6.38000 .000000140 .02850 .0013000270 .00280 .0013000270 .00280 .0013000280 .00010 6.38000 6.38000 .00020 .00020 .00020 6.38000 6.38000 .00020 .00020 .00020 .00020 6.38000 6.38000 6.38000 .00020 .00020 .00020 .00020 6.38000 6.38000 6.38000 .00020 .00020 .00020 6.38000 6.38000 6.38000 .00020 .00020 .00020 6.38000 6.38000 .00020 6.38000 .00020 6.38000 .00020 6.38000 .00020 6.38000 .00020 6.38000 6.38000 .00020 6.38000 .00020 6.38000 .00020 6.38000 .00020 6.38000 .00020 6.38000 .00020 6.38000 .00020 6.38000 .00020 6.38000 .00020 6.38000 .00020 6.38000 .00020 6.38000 .00020 6.38000 .00020 6.38000 .00020 6.38000 .00020 6.38000 .00020 .00020 6.38000 .00020 6.37000 .00020 0.00020 6.37000 .00020 6.37000 .00020 0.00020	940 -1.000 .00070 .02870 .01480 .00280 .00110 .00010 6.38000 .000000140 .02850 .0013000140 .00280 .00110 .00010 6.38000 .000140 .02850 .0181000340 .000220 .00010 6.38000 6.38000 950 3.000 .00370 .02850 .0183000340 .00030 6.38000 6.38000 950 4.000 .00370 .02850 .0189000340 .00030 6.38000 6.38000 950 4.000 .00050 .02830 .0185000340 .00070 6.38000 6.38000 950 8.10000270 .01850001700017000070 6.38000 980 8.10000270 .01850018500185000020 6.38000 980 8.10000270 .03270 .02850018500185000020 6.38000 10.000 10.00000890 .018500187000020 6.37000 114.000028510 .02850018500187000020 6.37000 9.300 114.000028510 .02850018500187000050 6.37000 9.300 114.00008950 .0285000050 6.37000 9.300 114.00008950 .0285000050 6.37000 9.37000 9.300 9.3000 9.3000 9.3000 9.3000 9.3000 9.3000 9.3000 9.3000 9.3000 9.30000 9.30000 9.3000 9.3000 9.3000 9.3000 9.3000 9.3000 9.3000 9.3000 9.30000 9.3000 9.3000 9.3000 9.3000 9.3000 9.3000 9.3000 9.3000 9.30000 9.300	55.040	-k.000	00210	3. E. C. C. C. C. C. C. C. C. C. C. C. C. C.			מנומס	00330	מלטטט.		_		0226
PETA CNT CAT CLMT CYT CYNT CBLT ALPHAN 240 -20.00002850 .02590 .01600 .14220 .02320 .00090 6.37000 120 -16.00001500 .03070 .02080 .07370 .01910 .00070 6.37000 170 -14.0000089U .03120 .02080 .07370 .01910 .00050 6.37000 170 -14.00000110 .03030 .01440 .04000 .01210 .00030 6.38000 180 -8.00000070 .02880 .01500 .02080 .00210 .00030 6.38000 180 -6.00000250 .02880 .01300 .02080 .00030 6.38000 180 -6.00000290 .01460 .01080 .00050 6.38000 180 -7.00000290 .01460 .01080 .00050 6.38000 180 -7.00000010 .02930 .01710 .00740 .00050 6.38000	940 -1,000 .00070 .02870 .01480 .00280 .00110 6.38000 940 1,000 -00190 .02850 .01520 .00150 .00000 6.38000 940 1,000 -00140 .02850 .01810 00340 .00010 6.38000 950 2,000 .00270 .02850 .01800 00540 .00010 6.38000 950 4,000 .00270 .02890 .01890 00540 .00000 6.38000 950 4,000 .00290 .02890 .01550 00540 .00000 6.38000 960 8,100 .00290 .02890 .01730 01650 00160 6.38000 980 8,100 .00270 .03270 .02850 01330 00010 6.38000 980 8,100 .00270 .03270 .02850 01330 00010 6.38000 990 12,000 .00270 .00010 .00270 .00010 <th< td=""><td>940 -1.000</td><td>-1.000</td><td></td><td>1 1</td><td>1 1 1</td><td></td><td></td><td>•</td><td>9</td><td>,</td><td>01000</td><td></td><td></td><td></td><td>2</td></th<>	940 -1.000	-1.000		1 1	1 1 1			•	9	,	01000				2
BETA CNT CAT CLMT CYT CYNT CBLT ALPHAN 240 -20.000 02850 .01600 .14220 .02320 .00030 6.37000 120 -16.000 01500 .03120 .02080 .07370 .00050 6.37000 070 -17.000 00880 .03120 .01500 .00050 6.37000 030 10.000 00110 .03330 .01440 .04000 .01480 .00050 6.38000 980 -8.000 00070 .03650 .01550 .01210 .00030 6.38000 -4.000 00070 .02880 .01300 .01280 .00030 6.38000 -4.000 00040 .02890 .01460 .01080 .00020 6.38000 940 -2.000 00040 .02890 .01710 .00450 6.38000	940	940 - 00190 - 00190 0 02850 0 01810 - 00070 - 00020 0 00000 6 38000 - 00190 - 00190 0 02850 0 01810 - 00070 - 00020 0 00000 6 38000 - 00020 0 00020 0 02850 0 01810 - 00070 - 00020 0 00000 6 38000 950 3 0000 0 00030 0 000000	940 1.00000190 .02850 .018100007000220 .00010 6.38000 6.3800000342000340003400335000340033500034000340003420003400335000340033500034000350003400034003350003400035000340003400034000340003400034000340003400035000340003500034000340003500034000350003400035000340003500034000350003	55.0	- בפטי	0000	7000			0000	2	0100		3		0.1001
BETA CNT CAT CLMT CYT CYNT CBLT ALPHAM 240 -20.000 02850 .01600 .14220 .02320 .00030 6.37000 120 -16.000 01840 .02120 .02280 .02040 .00070 6.37000 030 -19.000 00884 .03180 .01800 .01910 .00050 6.37000 030 10.000 00884 .03180 .0140 .04000 .01700 .00050 6.37000 090 00880 .03180 .01650 .02750 .01700 .00050 6.38000 00.000 00880 .01650 .02750 .01210 .00020 6.38000 00.000 00670 .02880 .01460 .01210 .00020 6.38000 0000 00010 .02890 .01760 .000460 .00020 6.38000 000 00040 .02890 .01710 .000460 .00020 6.38000	940 .00000190 .02850 .01520 .0013000550 .00000 6.38000	940 .00000190 .02850 .01520 .0013000550 .00000 6.38000 .0000	94000000190 .02850 .01520 .0013000050 .00000 6.38000 94000140 .02850 .018100007000220 .00010 6.38000 950 3.000 .00020 .02850 .018100050000380 .00010 6.38000 950 3.000 .00020 .02890 .018900050000540 .00000 6.38000 950 6.000 .00050 .02830 .018500017000540 .00010 6.38000 980 8.10000270 .02100 .021200133000150 6.38000 10.00000570 .03240 .02120026000133000020 6.37000 114.00000590 .03240 .02250048900177000020 6.37000 125.00001550 .02860 .015500889000050 6.37000 125.00005050 .02860 .015000889000050 6.37000 125.00005050 .02860 .015000889000050 6.37000 125.0000003100005 .015000150000050 6.37000 125.0000003100005 .0000000000 .00000 6.37000	0.0.0					•		0 - 1 0 0 .	0000	0.3000			2000
EFTA CNT CAT CLMT CYT CYNT CBLT ALPHAN 240 -20.000 02850 .01600 .14220 .02320 .00090 6.37000 120 -16.000 01500 .03070 .02000 .02290 .02040 .00070 6.37000 070 16.000 0084° .03120 .02080 .07370 .01910 .00050 6.37000 000 00880 .03120 .01600 .01140 .01480 .01480 .00080 6.38000 000 00110 .03050 .01440 .04900 .00210 6.38000 960 -6.000 00070 .02880 .01560 .0180 .00210 6.38000 940 00010 .02290 .01460 .00330 .00020 6.38000 940 20070 .02870 .01670 .00330 .00020 6.38000 940 20070 .00210 .01670 .00330 .00010 6.38	940 1.000001400285001810000300022000010 6.3800	940 1.000001400285001810003400022000010 6.38000 990 1.0000034000340003400034000010 6.38000 990 2.00000340003400034000010 6.38000 9950 3.00000370003400034000030 6.38000 6.38000 9950 95000370003400034000000 6.38000 9950 950 9500003000030 9000 90000034000030 9000 9000 9000 90000 9000003400034000340003400034000340 9000 9000 9000 9000 9000 9000 9000	940 1.000001400285001810003400022000100 6.38000 6.38	מונים מונים	Č	00100	u c c				0	00000	00000			0.00
BETA CNT CAT CLMT CYT CYNT CBLT ALPHAN 240 -20.000 02850 .01600 .14220 .02320 .00030 6.37000 120 -16.000 01500 .03120 .02080 .07370 .00050 6.37000 070 -115.000 00880 .03120 .01500 .00050 6.37000 030 -12.000 00880 .03180 .01600 .01910 .00050 6.37000 040 00080 .03180 .01600 .01900 .00050 6.38000 10.000 000110 .03050 .01650 .02750 .01210 .00030 6.38000 5000 00070 .02880 .01460 .01080 .00020 6.38000 5000 00040 .02290 .01460 .00080 .00020 6.38000 5000 00040 .02290 .01710 .00460 6.38000 5000 00040 .02290	940 1.00000140 .02850 .018100007000220 .00010 6.38000 5.8000 1.00000370 .02850 .018100034000380 .00010 6.38000 6.38000 5.8000 1.0000 6.38000 1.0000 6.38000 1.0000 6.38000 1.0000 6.38000 1.0000 6.38000 1.0000 6.38000 1.0000 6.38000 1.00000 6.38000 1.00000 6.38000 1.00000 6.38000 1.00000 6.38000 1.00000 6.38000 1.00000 6.38000 1.00000 6.38000 1.00000 6.38000 1.00000 6.38000 1.00000 6.38000 1.00000 6.38000 1.00000 6.38000 1.00000 6.38000 1.00000 6.38000 1.00000 6.38000 1.00000 6.38000 1.00000 1.00000 6.38000 1.00000 1.00000 6.38000 1.00000 1.00000 6.38000 1.00000 1.00000 6.38000 1.00000 1.00000 6.38000 1.00000 1.00000 6.38000 1.00000 1.00000 6.38000 1.00000 6.38000 1.00000 6.38000 1.00000 1.00000 6.38000 1.00000 6.38000 1.00000 6.38000 1.00000 6.38000 1.00000 6.38000 1.00000 6.38000 1.00000 6.38000 1.00000 1.00000 6.380000 1.00000 6.38000 1.00000 6.38000 1.00000 6.38000 1.00000 6.38	940 1.000 00140 .C2850 .01810 00070 00220 .00010 6.38000 940 2.000 .00370 .02850 .01380 00340 .00000 6.38000 950 4.000 .00370 .02930 .01590 00340 .00000 6.38000 950 4.000 .00370 .02930 .01580 01730 00100 6.38000 960 6.0007 .02930 .01980 01730 00000 6.38000 960 6.0007 .02240 .01730 00100 6.38000 960 10.000 .02340 .02120 02650 00150 6.37000 960 10.0090 .03240 .02370 01730 00150 6.37000 12.00 .0160 .03240 .02350 04890 00170 00030 6.37000 12.00 .02510 .03250 .01750 06860 00630 00630 00630 00630 0	940 1.00000140 .02850 .018100007000220 .00010 6.38000 5.000 .00020 .00020 .013800034000380 .00020 .02890 .013800034000380 .00000 6.38000 6.38000 950 4.000 .000370 .02930 .0159000540 .00040 6.38000 6.38000 950 4.000 .00050 .02980 .015500017000070 .00000 6.38000 6.38000 10.00000270 .03110 .02120025500133000000 6.38000 10.00000270 .03110 .02120025500133000020 6.38000 110.00000270 .03110 .02120025500133000020 6.37000 110.00002510 .03150 .01750088900222000050 6.37000 12.00002510 .03150 .01750089900222000050 6.37000 6.3700005050 .00031 .00050 6.370000522000050 6.37000 6.3700005050 .0003100050 6.370000525000050 6.370000525000050 6.370000525000050 6.3700005050 .00031000310005000050 6.370000255000050 6.370000525000050 6.370000255000050 6.3700000050 6.370000255000050 6.3700000050 6.37	000.00	200	06100	Caro.				ocnno.	oncon.	P. 38000			2000
BETA CNT CYT CYNT CBLT ALPHAM 240 -20.000 02850 .01600 .14220 .02320 .00030 6.37000 120 -16.000 01840 .02120 .02080 .02040 .00070 6.37000 030 10.000 00884 .03180 .01800 .00070 6.37000 030 10.000 00884 .03180 .0140 .04000 .01910 .00050 6.37000 030 10.000 00110 .03180 .01440 .04000 .01480 .00050 6.38000 980 10.000 00110 .03030 .01480 .02980 .01210 .00030 6.38000 980 00250 .02890 .01460 .01210 .00020 6.38000 940 2000 00040 .02890 .01710 .00460 .00020 6.38000 2000 00210 .02890 .01710 .00890 .00020 6.38000	940 00140 .02850 .01810 00070 00220 .00010 6.38000 940 2.002 .00370 .02850 .01380 00340 .00000 6.38000 950 4.000 .00370 .02900 .01580 00910 00740 .00000 6.38000 950 4.000 .00050 .02900 .01580 01730 00010 6.38000 960 6.000 .02900 .01380 01730 00010 6.38000 980 8.100 .00270 .03110 .02120 01580 00010 6.38000 980 10.009 .02120 .01730 0003 6.37000 980 10.009 .02120 .01770 .0003 6.37000 980 14.000 02510 .03540 .02350 04890 01770 .0003 6.37000 120 .00520 .03520 .01520 00520 00050 6.37000 120 <t< td=""><td>950 00140 .C2850 .01810 00070 00220 .00010 6.38000 950 3.000 .00370 .01890 00340 .00000 6.38000 950 4.000 .00370 .02930 .01590 00340 .00000 6.38000 950 4.000 .00370 .02980 .01590 00470 .00000 6.38000 960 6.0050 .02980 .01590 00500 6.38000 6.38000 960 10.00 .00270 .02120 02550 01050 00020 6.38000 970 10.09 00690 .02120 02550 01590 00030 6.37000 10.09 01690 .03240 .02350 04890 01770 00030 6.37000 12.00 02510 .03150 06890 06890 06890 06890 06890 06890 06890 00030 6.37000 20.000 02560 02560</td><td>950 1.00000140 .02850 .018100007000220 .00010 6.38000 6.38000 3.000 .00370 .00380 .000380 .000380 .000380 .00370 .00370 .00380 .000380 .00370 .00370 .00380 .000380 .000380 .00370 .00370 .000380 .00</td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>١</td><td></td></t<>	950 00140 .C2850 .01810 00070 00220 .00010 6.38000 950 3.000 .00370 .01890 00340 .00000 6.38000 950 4.000 .00370 .02930 .01590 00340 .00000 6.38000 950 4.000 .00370 .02980 .01590 00470 .00000 6.38000 960 6.0050 .02980 .01590 00500 6.38000 6.38000 960 10.00 .00270 .02120 02550 01050 00020 6.38000 970 10.09 00690 .02120 02550 01590 00030 6.37000 10.09 01690 .03240 .02350 04890 01770 00030 6.37000 12.00 02510 .03150 06890 06890 06890 06890 06890 06890 06890 00030 6.37000 20.000 02560 02560	950 1.00000140 .02850 .018100007000220 .00010 6.38000 6.38000 3.000 .00370 .00380 .000380 .000380 .000380 .00370 .00370 .00380 .000380 .00370 .00370 .00380 .000380 .000380 .00370 .00370 .000380 .00				1								١	
BETA CNT CAT CLMT CYT CYNT CBLT ALPHAM 240 -20.000 02850 .02690 .02370 .02000 .02000 .00000 6.37000 120 -16.000 01840 .03370 .02000 .02000 .00000 6.37000 030 -16.000 0084 .03120 .02080 .01600 .01700 .00050 6.37000 030 10.000 00880 .03180 .01600 .01700 .00050 6.37000 000 00880 .03180 .0140 .04000 .01700 .00050 6.37000 950 00070 .03500 .0140 .02750 .01210 .00050 6.38000 950 00070 .02890 .01460 .0180 .0030 6.38000 940 00010 .02990 .01710 .00460 .00020 6.38000 000 00250 .02890 .01740 .00460 .00020 6.380	950 3.000 .00370 .02950 .0138000340 .00380 .00000 6.38000 950 3.000 .00370 .02950 .0155000340 .00050 6.38000 6.38000 950 4.000 .00050 .02980 .015500091000740 .00000 6.38000 6.38000 950 8.10000270 .02980 .01980017300105000000 6.38000 950 81.0000270 .03110 .02120025500133000030 6.38000 930 10.00000570 .03170 .02130005800135000030 6.37000 930 12.00001560 .03240 .02350048900177000030 6.37000 950 9500225000030 6.37000 950 950 950 950 950 950 950 950 950	940 2.000 .00020 .02950 .0138000340 .000380 .00000 6.38000 950 3.000 .00370 .02950 .015900050000540 .00000 6.38000 6.38000 950 4.000 .00050 .02930 .015900051000740 .00000 6.38000 6.38000 980 8.10000270 .02980 .019800173001050 6.38000 6.38000 10.00000270 .03240 .02120036000133000020 6.37000 980 10.00000690 .03240 .02350048900177000030 6.37000 970 115.00002550048900177000050 6.37000 970 115.00002560 .00050 6.370000896002622000050 6.37000 6.37000 970 115.00002560 .00050 6.3700002560 .00050 6.37000 970 115.00002560 .00050 6.37000 970 115.00002560 .00050 6.37000 970 115.00002560 .00050 6.37000 970 115.00002560 .00050 6.37000 970 970 970 970 970 970 970 970 970	940 2.000	7			ייייייייייייייייייייייייייייייייייייייי				כתתככי	ככככ	7000	3	ō	0002
EFTA CAT CLMT CYT CYNT CBLT ALPHAM 240 -20.000 02850 .01600 .14220 .02320 .00090 6.37000 120 -16.000 01500 .03120 .02080 .02090 .00070 6.37000 070 -115.000 00884 .03120 .02080 .07370 .01910 .00050 6.37000 030 10.000 00110 .03180 .01500 .01910 .00050 6.38000 980 -8.000 00070 .03550 .01500 .01210 .00030 6.38000 -6.000 00070 .02880 .01460 .01980 .00020 6.38000 -6.000 00070 .02890 .01460 .00930 .00020 6.38000 -6.000 00040 .02330 .01710 .00460 .00020 6.38000 -6.000 00040 .02340 .01670 .00460 .00020 6.38000 -7.000	940 2.000 .00370 .02850 .01380 00340 00380 .00000 6.38000 950 4.000 .00370 .02900 .01590 00500 00540 .00000 6.38000 960 6.000 .00090 .02980 .01980 01730 00010 6.38000 980 9.100 00690 .02120 02650 01050 00010 6.38000 990 00590 .03240 .02130 02650 01050 6.37000 12.00 00690 .03240 .02350 04660 00040 6.37000 12.00 02510 .03240 .02350 04660 02620 00050 6.37000 12.0 14.000 02510 .03240 .01620 06050 6.37000 20.0 03420 .02560 06990 02620 00050 6.37000 20.0 03420 02650 06003 00003 00003 000003	940 2.000 .00340 00340 00340 00340 .00340 6.38000 6.38000 950 3.000 .00370 .02900 .01590 00500 00540 .00000 6.38000 950 4.000 .00990 .02980 .01550 00540 .00000 6.38000 960 6.000 .00270 .02980 .01330 00150 6.38000 980 8.100 06270 .02380 .02120 02650 01330 00020 6.38000 990 10.000 00690 .02320 .02120 01580 00020 6.37000 12.000 01690 .02320 .02350 04890 01770 00020 6.37000 12.000 01690 .03420 .02350 04890 01770 00050 6.37000 12.000 01750 06860 06220 00050 6.37000 23.420 06860 .01500 02520 00060	940 2.000 .002850 .01380 00340 00380 .00000 6.38000 950 3.000 .00370 .02900 .01690 00500 .00000 6.38000 950 4.000 .00370 .02980 .01550 00540 .00000 6.38000 960 6.000 .00270 .02980 .01330 01050 00010 6.38000 980 8.100 00270 .03110 .02120 02550 01330 00020 6.38000 980 9.100 01160 .02120 02650 01330 00020 6.37000 980 10.000 .02320 .02130 01580 00020 6.37000 10.000 0160 .03240 .02250 02220 00050 6.37000 120 .000 .03420 .02560 .01500 02520 00050 6.37000 230 .0000 .02560 .00000 .02560 00050 6.37000 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0000</td> <td>0.0000</td> <td></td> <td>n</td> <td>2000</td>									0000	0.0000		n	2000
BETA CNT CYT CYNT CRBLT ALPHAM 240 -20.000 02850 .01600 .14220 .02320 .00090 6.37000 120 -16.000 01500 .03070 .02080 .02040 .00070 6.37000 030 01500 .03180 .01600 .07370 .01910 .00050 6.37000 030 10.000 .00110 .03180 .0140 .04000 .01700 .00050 6.37000 030 10.000 00110 .03380 .0140 .04000 .01700 .00050 6.37000 090 00110 .03380 .0140 .04000 .01700 .00050 6.38000 10.000 00210 .03650 .01500 .02750 .01210 .00030 6.38000 10.000 00250 .02890 .01710 .00740 .00610 6.38000 20.000 00040 .02890 .01710 .00850 .00020 6.38000<	950 3.000 00370 00590 0159000540 00000 6.38000 950 950 950 950 950 950 950 950 950	950 3.000 0.00370 0.05930 0.0159000340 0.00000 6.38000 950 950 950 950 950 950 950 950 950	3.000	בין מיי	כככ		u coco				407	00000	2000		ě	61.00
BETA CNT CYT CYNT CRBLT ALPHAM 240 -20.000 02850 .01600 .14220 .02320 .00090 6.37000 120 -16.000 01500 .02040 .00090 6.37000 6.37000 120 01600 .03070 .02080 .02080 .00050 6.37000 030 12.000 00884 .03180 .01500 .01910 .00050 6.37000 030 12.000 00884 .03180 .01600 .01700 .00050 6.37000 030 12.000 00884 .03180 .01600 .01700 .00050 6.37000 090 12.000 00110 .03050 .01400 .01700 .00070 6.38000 10.000 00250 .02890 .01710 .00740 .00610 6.38000 4.000 00040 .02990 .01710 .00460 .00020 6.38000 4.000 00040 .02990<	950 3,000 .00370 .02900 .01690 00500 00540 .00000 6.38000 950 4,000 .00090 .02930 .01550 01730 00740 .00000 6.38000 960 8,000 .00270 .02980 .01980 01730 000010 6.38000 900 10.00 00670 .0310 .02120 02600 01350 00020 6.38000 10.00 01690 .03270 .02130 00030 6.37000 6.37000 12.00 0160 .03270 .02490 0170 00030 6.37000 12.00 02510 .03150 .01750 06800 <td>950 3,000 .00370 .02900 .01690 00500 00540 .00000 6.38000 950 4,000 .00050 .02930 .01550 00910 00740 .00010 6.38000 960 6,000 .02930 .01550 01730 00010 6.38000 980 8.100 00270 .03110 .02120 03600 00130 00020 6.37000 10.000 00690 .03220 .02130 01730 00030 6.37000 12.000 01560 .03220 .02350 04890 0170 00030 6.37000 12.000 02510 .03150 .06860 06860 06860 06860 06860 00050 6.37000 20.000 06050 .02580 .01500 02560 00030 00000 6.37000 20.000 06050 .02690 .01500 02560 00030 00000 6.37000</td> <td>950 3.000 .00370 .02900 .01690 00500 00540 .00000 6.38000 950 4.000 .00050 .02930 .01550 00740 .00010 6.38000 950 6.000 .02930 .01590 0170 00010 6.38000 980 8.100 00270 .02300 02130 00010 6.38000 990 0100 .02120 02510 .00230 6.37000 930 10.000 01340 .01770 00020 6.37000 114.000 01150 .03240 .01250 01470 00050 6.37000 120 .01400 .02340 .01500 01600 6.37000 6.37000 120 .02500 .02520 .00050 6.37000 00520 00050 6.37000 230 .00000 .02520 .00000 6.37000 00000 6.37000 230 .00000 .02520 .00000 00000</td> <td>20.00</td> <td>200.3</td> <td>00000.</td> <td>. כמם</td> <td></td> <td></td> <td></td> <td>. 00380</td> <td>nnnn.</td> <td>20000</td> <td></td> <td></td> <td>3.5</td>	950 3,000 .00370 .02900 .01690 00500 00540 .00000 6.38000 950 4,000 .00050 .02930 .01550 00910 00740 .00010 6.38000 960 6,000 .02930 .01550 01730 00010 6.38000 980 8.100 00270 .03110 .02120 03600 00130 00020 6.37000 10.000 00690 .03220 .02130 01730 00030 6.37000 12.000 01560 .03220 .02350 04890 0170 00030 6.37000 12.000 02510 .03150 .06860 06860 06860 06860 06860 00050 6.37000 20.000 06050 .02580 .01500 02560 00030 00000 6.37000 20.000 06050 .02690 .01500 02560 00030 00000 6.37000	950 3.000 .00370 .02900 .01690 00500 00540 .00000 6.38000 950 4.000 .00050 .02930 .01550 00740 .00010 6.38000 950 6.000 .02930 .01590 0170 00010 6.38000 980 8.100 00270 .02300 02130 00010 6.38000 990 0100 .02120 02510 .00230 6.37000 930 10.000 01340 .01770 00020 6.37000 114.000 01150 .03240 .01250 01470 00050 6.37000 120 .01400 .02340 .01500 01600 6.37000 6.37000 120 .02500 .02520 .00050 6.37000 00520 00050 6.37000 230 .00000 .02520 .00000 6.37000 00000 6.37000 230 .00000 .02520 .00000 00000	20.00	200.3	00000.	. כמם				. 00380	nnnn.	20000			3.5
BETA CNT CYT CYNT CRRT ALPHAM 240 -20.000 02850 .01600 .14220 .02320 .00090 6.37000 120 -16.000 01500 .03120 .02000 .02340 .00070 6.37000 070 01500 .03120 .02000 .07370 .01910 .00050 6.37000 030 00840 .03120 .02080 .0710 .00050 6.37000 030 00880 .03180 .0140 .04910 .00050 6.37000 000 00110 .03330 .0140 .04900 .00050 6.38000 -8.000 00070 .02880 .01460 .01900 .00020 6.38000 -6.000 00040 .02290 .01460 .01900 .00020 6.38000 -6.000 00040 .02290 .01460 .00950 .00020 6.38000 -5.000 00040 .02290 .01460 .00460 <	3.000 10.900 </td <td>950 3,000 10,340 10,590 -,0050 -,00540 0,0000 6,38000 950 4,000 .00090 .02930 .01550 -,00440 .00000 6,38000 960 6,000 .00050 .02980 .01550 -,0150 -,00010 6,38000 980 8,100 -,06270 .03110 .02120 -,02650 -,01580 -,00020 6,37000 990 10,000 -,06970 .02370 .02360 -,04890 -,01770 -,00030 6,37000 12,000 -,0150 .03240 .02350 -,04890 -,01770 -,00050 6,37000 12,000 -,0150 .03150 -,06860 -,01770 -,00050 6,37000 20 -,0150 -,0150 -,02620 -,00050 6,37000 23 20,000 -,0150 -,02620 -,00060 6,37000 23 20,000 -,0150 -,02620 -,00050 6,37000 23 20,000</td> <td>5,000 10,290 10,590 -,0050 -,00540 0,0000 6,38000 950 6,000 0,0090 0,0293 0,00910 -,00910 -,00910 -,00910 6,38000 960 6,000 0,0095 0,0298 0,01980 -,01330 -,00010 6,38000 980 8,100 -,0067 0,0298 -,01980 -,01330 -,00020 6,38000 990 -,0069 0,0230 0,02120 -,02500 -,00020 6,37000 900 -,0160 0,3220 0,2350 -,01890 -,01770 -,00030 6,37000 14,000 -,02510 0,3150 -,06990 -,06220 -,00050 6,37000 120 -,000 -,03420 0,2960 0,1500 -,02520 -,00050 6,37000 230 -,000 -,000 -,000 -,000 -,000 -,000 -,000 -,000 -,000 -,000 -,000 -,000 -,000 -,000 -,000 -,000<td>6</td><td></td><td>400</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td></td>	950 3,000 10,340 10,590 -,0050 -,00540 0,0000 6,38000 950 4,000 .00090 .02930 .01550 -,00440 .00000 6,38000 960 6,000 .00050 .02980 .01550 -,0150 -,00010 6,38000 980 8,100 -,06270 .03110 .02120 -,02650 -,01580 -,00020 6,37000 990 10,000 -,06970 .02370 .02360 -,04890 -,01770 -,00030 6,37000 12,000 -,0150 .03240 .02350 -,04890 -,01770 -,00050 6,37000 12,000 -,0150 .03150 -,06860 -,01770 -,00050 6,37000 20 -,0150 -,0150 -,02620 -,00050 6,37000 23 20,000 -,0150 -,02620 -,00060 6,37000 23 20,000 -,0150 -,02620 -,00050 6,37000 23 20,000	5,000 10,290 10,590 -,0050 -,00540 0,0000 6,38000 950 6,000 0,0090 0,0293 0,00910 -,00910 -,00910 -,00910 6,38000 960 6,000 0,0095 0,0298 0,01980 -,01330 -,00010 6,38000 980 8,100 -,0067 0,0298 -,01980 -,01330 -,00020 6,38000 990 -,0069 0,0230 0,02120 -,02500 -,00020 6,37000 900 -,0160 0,3220 0,2350 -,01890 -,01770 -,00030 6,37000 14,000 -,02510 0,3150 -,06990 -,06220 -,00050 6,37000 120 -,000 -,03420 0,2960 0,1500 -,02520 -,00050 6,37000 230 -,000 -,000 -,000 -,000 -,000 -,000 -,000 -,000 -,000 -,000 -,000 -,000 -,000 -,000 -,000 -,000 <td>6</td> <td></td> <td>400</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td>	6		400									1	
BETA CNT CYT CYNT CNT ALPHAM 240 -20.000 02850 .01600 .14220 .02320 .00090 6.37000 120 -16.000 01500 .03070 .02080 .02040 .00070 6.37000 -16.000 01500 .03120 .02080 .07370 .01910 .00050 6.37000 -17.000 00884 .03180 .01400 .01700 .00050 6.37000 000 00110 .03180 .01440 .04000 .01700 .00050 6.37000 10.000 00110 .03030 .01440 .04000 .01700 .00050 6.38000 -8.000 00250 .02880 .01460 .01700 .00030 6.38000 -8.000 00250 .02880 .01460 .00140 .00020 6.38000 -4.000 00210 .02890 .01710 .00460 .00020 6.38000 -2.000 00210 .02890 </th <td>950</td> <td>950</td> <td>950 4,000 .00090 .02930 .015500091000740 .00000 6.38000 9960 6.000 .00050 .02930 .01980017300105000010 6.38000 9960 6.000 .00050 .02930 .01980017300105000010 6.38000 900 10.00000690 .03240 .02130015800158000050 6.37000 070 14.00002510 .03240 .02350088000177000050 6.37000 12.00002510 .03150 .01750088900077000050 6.37000 9.300002510 .03420 .02960 .01500135200252000050 6.37000 6.37000 0.01500250000050 6.37000 0.01500135200255000050 6.37000 0.01500135200255000050 6.37000 0.015000255000050 6.37000 0.01500135200255000050 6.37000 0.015000255000050 6.37000 0.015000255000050 6.37000 0.015000255000050 6.37000 0.015000255000050 6.37000 0.015000255000050 6.37000 0.015000255000050 6.37000 0.015000255000050 6.37000 0.015000255000050 6.37000 0.015000255000050 6.37000 0.015000255000050 6.37000 0.015000255000050 6.37000 0.015000255000050 6.37000 0.015000255000050 6.37000 0.015000255000050 6.37000 0.015000255000050 6.37000 0.015000255000050 6.37000 0.015000255000050 6.37000 0.015000255000050 6.37000 0.015000255000050 6.37000 0.00050 6.370000 0.00050 6.37000 0.00050 6.37000 0.00050 6.37000 0.00050 6.370</td> <td>20.00</td> <td>3,000</td> <td>(IV \$ (II)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Ň</td> <td></td>	950	950	950 4,000 .00090 .02930 .015500091000740 .00000 6.38000 9960 6.000 .00050 .02930 .01980017300105000010 6.38000 9960 6.000 .00050 .02930 .01980017300105000010 6.38000 900 10.00000690 .03240 .02130015800158000050 6.37000 070 14.00002510 .03240 .02350088000177000050 6.37000 12.00002510 .03150 .01750088900077000050 6.37000 9.300002510 .03420 .02960 .01500135200252000050 6.37000 6.37000 0.01500250000050 6.37000 0.01500135200255000050 6.37000 0.01500135200255000050 6.37000 0.015000255000050 6.37000 0.01500135200255000050 6.37000 0.015000255000050 6.37000 0.015000255000050 6.37000 0.015000255000050 6.37000 0.015000255000050 6.37000 0.015000255000050 6.37000 0.015000255000050 6.37000 0.015000255000050 6.37000 0.015000255000050 6.37000 0.015000255000050 6.37000 0.015000255000050 6.37000 0.015000255000050 6.37000 0.015000255000050 6.37000 0.015000255000050 6.37000 0.015000255000050 6.37000 0.015000255000050 6.37000 0.015000255000050 6.37000 0.015000255000050 6.37000 0.015000255000050 6.37000 0.015000255000050 6.37000 0.00050 6.370000 0.00050 6.37000 0.00050 6.37000 0.00050 6.37000 0.00050 6.370	20.00	3,000	(IV \$ (II)									Ň	
BETA CNT CYT CYNT CRBLT ALPHAM 240 -20.000 02850 .01600 .14220 .02320 .00090 6.37000 120 -16.000 01500 .02080 .02080 .00090 6.37000 120 -16.000 0084 .03180 .01600 .02090 .00060 6.37000 120 0084 .03180 .01600 .07370 .01910 .00060 6.37000 120 0088 .03180 .0140 .04000 .01700 .00060 6.37000 100 00110 .03050 .0140 .04000 .01700 .00060 6.38000 10.000 00110 .03550 .01650 .0720 .00020 6.38000 10.000 00250 .02890 .01460 .00060 .00020 6.38000 000 00250 .02890 .01710 .00460 .00020 6.38000 000 00040 .02890	950 4,000 .00090 .02930 .015500091000740 .00000 6.38000 960 6.000 .00050 .02980 .01980017300105000010 6.38000 980 81.0000670 .03210 .02120026500133000020 6.38000 000 10.00000690 .03200 .021300158000030 6.37000 070 14.00002510 .03150 .01750068600262000050 6.37000 15.00002510 .03150 .01750068600262000050 6.37000 16.00002510 .02960 .015001352000050 6.37000 070 18.00006950 .02960 .015001352000050 6.37000 070 18.00006050 .02960 .015000525000050 6.37000	950 4,000 .00090 .02930 .015500091000740 .00000 6.38000 960 6.000 .00050 .02990 .019800173000150 6.38000 000 10.00000690 .03240 .02180018900133000020 6.37000 000 10.0000150 .03240 .02350048900177000030 6.37000 000 15.00002510 .03240 .02350048900177000050 6.37000 000 15.00002510 .03150 .01750068600202000050 6.37000 00002510 .02580 .0150008900255000060 6.37000 00006050 .02580 .01500135200256000070 6.37000 000 00001 .0003100005 .000400016900003 .00000	950 4,000 .00090 .02930 .015500091000740 .00000 6.38000 960 6.000 .00250 .02980 .01980013300015000010 6.38000 980 10.00000270 .03110 .02120036000133000020 6.38000 98.10000570 .03200 .02130036000158000020 6.38000 98.10000590 .0320 .02150048900177000020 6.37000 98.10002510 .03150 .02350048900177000050 6.37000 98.10002510 .03150 .015600686000050 6.37000 98.10005050 .02960 .015001352000050 6.37000 98.10005050 .02960 .015001352000050 6.37000 98.10005050 .000010002000050 6.37000	1											٦	775
BETA CNT CYT CYNT CRBLT ALPHAM 20,000 02850 .02590 .01600 .14220 .02370 .00000 6.37000 120 -16.000 01840 .03070 .02000 .00000 6.37000 170 -16.000 01847 .03180 .01600 .02040 .00050 6.37000 000 00847 .03180 .01600 .05190 .01700 .00050 6.37000 01 10.000 00880 .03180 .0140 .00600 6.37000 6.37000 01 10.000 00110 .035030 .01440 .04000 .00050 6.38000 6.38000 10.000 00250 .02880 .01460 .0180 .00020 6.38000 6.38000 20.000 00250 .02890 .01460 .00740 .00020 6.38000 20.00 00210 .02890 .01460 .00050 .00020 6.38000 2000	960 6.000005002300130010500105000100 8.38000010500050002300010500105000100 8.3800001050002700027002120025000133000020 6.38000013000158000020 6.3800001580015800030 6.3700001580015800158001700030 6.37000017000500 6.370000235004890017000030 6.37000 120 002500225000500 6.37000015900225000500 6.37000 6.37000022500225000033000050226000500022500003300005	960 6.000 .00550 .02590 .00550 .00560 .00010 9.38000 980 8.100 .00670 .03110 .02120 .02650 .01050 .00010 6.38000 980 9.100 .00670 .03110 .02120 .02650 .01050 .00020 6.37000 990 .0050 .00570 .02320 .02350 .01770 .00030 6.37000 12.000 .0150 .02350 .04890 .01770 .00050 6.37000 270 18.000 .03150 .06860 .06220 .00050 6.37000 29.000 .03420 .01500 .03500 .02560 .00060 6.37000 20.000 .06050 .02560 .01500 .02560 .00070 6.37000 20.000 .06050 .02580 .01500 .02560 .00070 6.37000 20.000 .0003 .00005 .00005 .00000 .00000 .00000	6.000 .0050 .02590 .0130 .00130 .00010 8.38000 980 8.100 .00270 .02380 .0130 .00130 .00020 6.38000 980 8.100 .00270 .03110 .02120 .02560 .01330 .00020 6.38000 990 .0050 .0250 .0250 .00030 6.37000 6.37000 10.00 .0176 .02550 .01770 .00050 6.37000 120 .0176 .08990 .02520 .00050 6.37000 120 .0256 .02560 .01500 .02520 .00050 6.37000 20 .0000 .02560 .01500 .02560 .00050 6.37000 20 .0000 .02560 .0000 .00000 .00000 6.37000 20 .0000 .0000 .0000 .0000 .0000 .0000 .0000		2		2000				2		00000		٠	00000
BETA CNT CYT CYNT CRRT ALPHAM 240 -20.000 02850 .01600 .14220 .02320 .00090 6.37000 120 -16.000 01500 .03070 .02000 .02040 .00070 6.37000 030 01500 .03120 .02080 .07370 .01910 .00050 6.37000 030 01500 .03120 .01600 .01700 .00050 6.37000 030 10.000 .00084 .03120 .01600 .01700 .00050 6.37000 030 10.000 .00084 .03120 .0140 .04000 .01700 .00050 6.38000 040 00080 .03300 .0140 .04000 .01210 .00030 6.38000 0000 00070 .02800 .01760 .01760 .00040 .00020 6.38000 2000 00070 .02800 .01760 .00040 .00020 .00020 .00020	960 6.000 .00050 .02980 .01980017300105000010 6.38000 6.800 6.8000 10.00 10.0020 6.38000 .02120026500133000020 6.38000 6.38000 10.00000620 .03220 .021200158000158000020 6.37000 000 10.00001160 .03220 .02350048900177000020 6.37000 12.00 14.00002510 .03150 .01750068600202000050 6.37000 12.0 16.00003420 .02350 .01620089900222000050 6.37000 6.37000 00002550 .0003100050 6.370000255000003 .00000 6.37000	960 6.000 . 00050 . 02980 . 01980017300105000010 6.38000 . 0980 810000270 . 03110 . 02120025500133000020 6.38000 . 0000 10.00000590 . 03120 . 02120035000158000030 6.37000 . 031500117000030 6.37000 . 0300 14.00002510 . 03150 . 01750089900222000050 6.37000 . 01500034200256000550 6.37000 6.37000 . 02560050000252000050 6.37000 6.37000 . 00000050000000000000 6.3700005000	960 6.000 .00050 .02980 .01980017300105000010 6.38000 980 8110000270 .03110 .02120026500133000020 6.38000 900 10.00000690 .03200 .02350015800158000020 6.37000 930 12.00002510 .03250025500177000020 6.37000 970 14.00002510 .03150 .01750068600202000050 6.37000 970 16.00002510 .02560068900222000050 6.37000 930 9000252000050 6.37000 930 9000252000050 9.37000 930 9000252000050 9.37000 930 900 900 90050 9.37000 930 90050 9.00050 9.37000 930 90050 9.0	7	20.	00000	Cuno.				01.00.1	00000	0.28000		٩	0555
BETA CNT CYT CYN ALPHAM 240 -20.000 02850 .01600 .14220 .02320 .00090 6.37000 120 -16.000 01500 .03070 .02080 .02040 .00090 6.37000 -16.000 01540 .03370 .02080 .02040 .00070 6.37000 -17.000 00884 .03180 .01500 .07370 .01910 .00070 6.37000 030 10.000 00884 .03180 .0140 .04000 .01700 .00050 6.37000 090 00110 .03180 .0140 .04000 .01700 .00050 6.38000 10.000 00110 .03050 .01500 .01210 .00050 6.38000 10.000 00250 .02890 .01710 .00740 .00650 6.38000 2.000 00270 .02890 .01710 .00740 .00050 6.38000 2.000 00270 .02	950 B. 00000050 .02980 .01980017300105000010 B. 38000 0900 0910 000250 .00020 B. 38000 0900 0900 10.00000650 .03200 .021300153000030 B. 33000 030 10.00000690 .03200 .02130015800153000030 B. 37000 030 12.00001160 .03220 .023500489001770000.0 B. 37000 070 14.00002510 .03150 .01750068600202000050 B. 37000 0150 003420 .02560 .01500089900222000050 B. 37000 030 000310003100005 000003 .0000000003	950 B. 000 . 00050 . 02980 . 01730 01050 00020 E . 38000 980 81.100 00650 . 03110 . 02120 02650 00020 6 . 34000 900 10.000 00650 . 03200 . 02130 0150 00030 6 . 37000 030 12.000 0160 . 03240 . 02350 04990 01770 00030 6 . 37000 120 02510 . 03150 . 01750 06860 00050 6 . 37000 120 03420 . 01620 08990 00050 6 . 37000 20 20.000 06550 . 02580 . 01500 12550 00050 6 . 37000 23 20.000 00031 00040 00069 6 . 37000	980 8.10000200298001980017300105000010 6.38000 6.38000 10.00002700311002120026500133000020 6.38000 0.03 0.0020 6.38000 0.03 0.0020 6.38000 0.03 0.0020 6.38000 0.03 0.0020 0.03 0.0030 6.37000 0.03 0.0020 0.03 0.0030 0.03 0.0030 0.03 0.0030 0.03 0.0030 0.03 0.0030 0.03 0.0030 0.03 0.0030 0.03 0.0030 0.03 0.0030 0.03 0.0030 0.03 0.0030 0.03 0.0030 0.03 0.0030 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.03 0.0030 0.03 0.0030 0.0030 0.0030 0.0030 0.0030 0.0030 0.0030 0.0030 0.0030 0.0030 0.0030 0.0030 0.0030 0.0030 0.0030 0.0030 0.0030 0.00300 0.0030 0.0030 0.0030 0.0030 0.0030 0.0030 0.0030 0.0030 0.00300 0.0030 0.0030 0.0030 0.0030 0.0030 0.0030 0.0030 0.0030 0.00300 0.0030 0.0030 0.0030 0.0030 0.0030 0.0030 0.0030 0.0030 0.00300 0.0030 0.0030 0.0030 0.0030 0.0030 0.0030 0.0030 0.0030 0.00300 0.00300 0.0030				1								•	
BETA CNT CYT CYNT CNT ALPHAH 20,000 02850 .02690 .02370 .02000 .02370 .00000 .03700 .00000 .03700 .00000 .03700 .00000 .03700 .00000	980 8.10000270 .03110 .02120025500133000020 6.38000 000 10.00000690 .03200 .02130006900133000020 6.37000 000 10.00001580 .03220 .02230048900177000030 6.37000 0070 14.000025510 .03150 .01750068600202000050 6.37000 0120 16.00003420 .02350 .01750089900222000050 6.37000 0230 0.0250000050 6.37000 000003550 .000000155000003 .00000	980 8.10000270 .03110 .02120025500133000020 6.38000 0000 10.00000570 .03270 .02130005500133000030 6.37000 0000 10.00000590 .03220 .02350048900177000030 6.37000 0000 12.000015500202000030 6.37000 0000 15.00002510 .03150 .01750068600222000050 6.37000 0000 15.00003420 .02560 .015000352000050 6.37000 0000 0000 0000005500 .00000 000000550000000 00000 00000 0000000000 00000 0000000000 00000 0000000000 00000 0000000000 00000000000 00000000000 00000000000 00000000000 00000000000 00000000000 00000000000 00000000000000000 00000000000 00	980 8.10000270 .03110 .02120025500133000020 6.38000 0000 10.00000590 .03200 .02130005500133000030 6.37000 0000 10.0000158000030 6.37000 0000 14.00001150 .03150 .01750068500222000050 6.37000 0120 14.00003120 .01750068500222000050 6.37000 0120 15.00003420 .02580 .015000352000050 6.37000 0000 00000 00000 00000 00000 000000	20.00	200						מינים ו		מטטאצ א		3	C - C - C - 1
BETA CNT CYT CYNT CRMT ALPHAM 240 -20.000 02850 .01600 .14220 .02320 .00090 6.37000 120 -16.000 01500 .03120 .02000 .02040 .00070 6.37000 070 01500 .03120 .02000 .07370 .01910 .00070 6.37000 070 00880 .03180 .02180 .07370 .01910 .00050 6.37000 000 00110 .03180 .01440 .04000 .00050 6.37000 000 00110 .03330 .01440 .04000 .00050 6.38000 0000 00070 .02880 .01460 .01210 .00030 6.38000 0000 00070 .02890 .01760 .00930 .00020 6.38000 0000 00040 .02890 .01740 .00950 .00020 6.38000 000 00040 .02890 .01740	980 8.10000270 .03110 .02120025500133000020 6.36000 000 10.00000690 6.36000 000 10.00000690 .032700 000 10.00000690 .032700 000 00001150 0.025500468001770000.0 6.37000 000 12.000025510 .03250046800202000050 6.37000 000 14.00002510 .03150 .01750068600202000050 6.37000 000 15.00003420 .02960 .01620089900222000050 6.37000 000 000 000 000 000 000 000 000 00	980 8.10000270 .03110 .02120025500133000020 6.38000 000 010.00000590 .03200 .02130005500158000030 6.37000 030 12.00000590 .03240 .02350048900177000030 6.37000 0314.00002510 .03150 .01750068600222000050 6.37000 0120 16.00003420 .02960 .01620089000222000050 6.37000 0230 00006050 6.37000 0150005050 0.00500 6.37000 0230 0000 015000555000050 6.37000 0230 0003100005 0.00001002400016900003 .00000	980 8.10000270 .03110 .02120025500133000020 6.38000 000 10.00000590 .03200 .02130005900158000030 6.37000 010.00000590 .03240 .02350004800177000630 6.37000 070 14.00002510 .03150 .01750068600202000050 6.37000 12.0 16.00002420 .02960 .01500089900222000060 6.37000 020 00005050 .02580 .01500135200255000070 6.37000 03.0003100005100091002400016900070			3					2000	000.	00000		٢	0.00
BETA CNT CYT CYNT CRBLT ALPHAM 240 -20.000 02850 .01600 .14220 .02320 .00090 6.37000 120 -16.000 01500 .03070 .02080 .02040 .00070 6.37000 -16.000 01500 .03120 .02080 .02040 .00070 6.37000 -17.000 00884 .03120 .02080 .07370 .00070 .00070 6.37000 030 10.000 .00884 .03180 .01400 .01700 .00070 6.37000 030 10.000 .00884 .01600 .01700 .00070 .00070 6.38000 090 00110 .03050 .01650 .02750 .01210 .00030 6.38000 -8.000 00250 .02880 .01760 .00740 .00030 6.38000 -9.000 00270 .02890 .01710 .00740 .00160 6.38000 -2.000 00270 <td>10.0000590</td> <td>030 10.0000690031000213002130015300153000030 6.37000 030 10.000005900320002130015300153000590 0.03200 03200021300153000500 6.37000 030 12.0000160 0.0315002350048900177000050 6.37000 070 14.000025100315001750068600202000050 6.37000 0120 0.032500252000050 6.37000 0230 0.0250002560000050 6.37000 0230 0.02500025600000300000</td> <td>030 10.0000059003270051300133001030 6.34000 0.0300 10.000 10.000 0.032500055000135000030 6.37000 0.030 12.0000115000350 0.023500489001770000.0 6.37000 0.02 14.00002510 .0324001750068600202000050 6.37000 0.02 15.000034200296001500089900222000050 6.37000 0.02 15.00005050 0.0255000050 6.37000 0.025500003100005 0.002400025500000300000</td> <td>2500</td> <td>0</td> <td>0000</td> <td></td> <td></td> <td></td> <td></td> <td>0000</td> <td>40.000</td> <td></td> <td>•</td> <td></td> <td>0110</td>	10.0000590	030 10.0000690031000213002130015300153000030 6.37000 030 10.000005900320002130015300153000590 0.03200 03200021300153000500 6.37000 030 12.0000160 0.0315002350048900177000050 6.37000 070 14.000025100315001750068600202000050 6.37000 0120 0.032500252000050 6.37000 0230 0.0250002560000050 6.37000 0230 0.02500025600000300000	030 10.0000059003270051300133001030 6.34000 0.0300 10.000 10.000 0.032500055000135000030 6.37000 0.030 12.0000115000350 0.023500489001770000.0 6.37000 0.02 14.00002510 .0324001750068600202000050 6.37000 0.02 15.000034200296001500089900222000050 6.37000 0.02 15.00005050 0.0255000050 6.37000 0.025500003100005 0.002400025500000300000	2500	0	0000					0000	40.000		•		0110
BETA CNT CYT CYNT CRNT ALPHAM 240 -20.000 -02850 01600 14220 02320 00090 6.37000 120 -16.000 -02850 02600 07240 00090 6.37000 -16.000 -0084 03370 02080 07060 6.37000 6.37000 -17.000 -00884 03180 01600 07370 010910 00060 6.37000 -18.000 -00884 03180 01600 07370 01700 00060 6.37000 -10.000 -00884 03180 01400 074000 07400 07400 07400 07	000 10.00000690 .03200 .02350036000158000030 6.37000 0030 12.0000158000030 6.37000 0030 12.00001160 .03240 .02350048900177000030 6.37000 0070 14.00002510 .03150 .01750068600202002020 6.37000 0120 16.00003420 .02580 .01520089900222000050 6.37000 0230 0.025000325000050 6.37000 00330 0000300003 .00000	000 10.00000690 .03200 .02350048900158000030 6.37000 0030 12.00001580 0.02350048900177000030 6.37000 0070 14.00002510 .03150 .01750068600202000050 6.37000 0070 15.00002510 .02580 .01500089900222000050 6.37000 00230 6.000006050 0.02580 .01500033200225000050 6.37000 003300256000070 6.37000 00000 00001 00000	000 10.00000690 .03200 .02350046900158000030 6.37000 0.30 12.00001580 0.02350048900177000030 6.37000 0.3270 14.00001150 .02350 0.02350068500602000050 6.37000 0.1250 16.00003420 .02960 .01500089900222000050 6.37000 0.330 0.00050 6.37000 0.3300 0.0250 0.0255000050 6.37000 0.3300 0.0003100050 0.00070 6.37000 0.0003100003100024000016900003 .00000	000.77	22.0	0/400.	170.							•	7	2
BETA CNT CYT CYNT CRNT ALPHAH 20,000 02850 .02690 .02370 .02000 .02370 .02000 .02000 .02000 .02000 .02000 .02000 .00000 6.37000 120 01500 02680 .03370 .02680 .07200 .00050 6.37000 6.37000 030 0088 .03370 .01500 .07200 .00050 6.37000 6.37000 030 0088 .03180 .0140 .07200 .00050 6.37000 6.37000 000 00110 .03050 .0140 .04000 .0140 .00060 6.38000 6.38000 000 00250 .02890 .01460 .00740 .00020 6.38000 6.38000 000 00250 .02890 .01460 .00740 .00020 6.38000 6.38000 000 00250 .02890 .01700 .00030 .00020 6.38000 000	000 10.00000690 .03200 .02350036000158000030 6.37000 0.30 12.00001580 .00030 6.37000 0.30 12.00001160 .03240 .02350048900177000050 6.37000 0.370 14.00002510 .03150 .01750068600202002020 6.37000 0.37000 0.37000 0.0590 0.01520 0.05980 0.015200252000050 6.37000 0.337000 0.015001355002550 0.00033 0.00000 0.0003100003 0.00001005400016900003	000 10.00000690 .03200 .02350015600158000030 6.37000 0030 12.00000690 .03240 .02350048900177000030 6.37000 0030 12.00001150 .03240 .02350048900177000050 6.37000 0030 15.00003420 .02360 .01620088600622000050 6.37000 0033006050 .01500135200225000070 6.37000 00330 00003 .000000024000033 .00000	000 10.00000690 .03200 .02130036000158000030 6.37000 0000 10.00000690 .03200 .03200 .002400177001070 6.37000 0000 14.00002160 .03160 .01750062000220002050 6.37000 0000 14.00002420 .02560 .01500069900222000060 6.37000 0000 0000 0000 00000 00000 00000 0000									,			•	
BETA CNT CYT CYNT CRRT ALPHAM 240 -20.000 02850 .01600 .14220 .02320 .00090 6.37000 120 -16.000 01500 .03070 .02000 .02040 .00070 6.37000 -16.000 00884 .03120 .02080 .07370 .00050 6.37000 -17.000 00884 .03180 .01600 .01700 .00050 6.37000 -10.000 00110 .03330 .01440 .04000 .01700 .00050 6.37000 -10.000 00110 .03300 .01440 .04000 .01700 .00050 6.38000 -10.000 00070 .02880 .01460 .01210 .00030 6.38000 -8.000 00070 .02880 .01760 .01760 .00030 6.38000 -4.000 00070 .02890 .01760 .00030 .00020 6.38000 -2.000 00070 .02890 .	030 12.00001160 .03240 .02350049900177000050 6.37000 070 14.00002510 .03240 .01750068600222000050 6.37000 070 14.00002510 .03150 .01750068600222000050 6.37000 070 15.0000222000050 6.37000 070 070 070 070 070 070 070 070 07	030 12.00001160 .03240 .02350048900177000050 6.37000 0.0070 14.00002510 .03240 .01750068600202000050 6.37000 0.020 15.00003420 .02960 .01750089900222000050 6.37000 0.0250066050 .02580 .01500135200255000070 6.37000 0.02400603100005 .000000256000003 .00000	030 12.00001160 .03240 .023500435001770000.0 6.37000 .070 14.00002510 .03240 .01750068600202000050 6.37000 .070 14.00002420 .02350088600202000050 6.37000 .025003420 .02960 .01520089900222000060 6.37000 .0230 .02500255000060 6.37000 .025006050 .025000060 6.37000 .025000003 .0000000003 .0000000003 .00000	200	5		0420			2000	001100	02000			•	2
BETA CNT CAT CLMT CYT CYNT CRLT ALPHAM 240 -20.00002850 .02590 .01600 .14220 .02320 .00090 6.37000 -16.0000084 .03120 .02080 .02370 .00090 6.37000 -17.0000084 .03120 .02680 .01770 .01910 .00050 6.37000 -18.00000110 .03030 .0140 .04000 .01480 .00050 6.37000 -19.00000110 .03030 .0140 .04000 .01700 .00050 6.38000 -19.00000070 .02890 .01870 .00890 .00610 6.38000 -2.00000250 .02890 .01710 .00740 .00610 6.38000 -2.00000270 .02890 .01670 .00890 .00110 6.38000 -2.00000190 .02890 .01670 .00890 .00010 6.38000 -2.00000190 .02890 .01870 .00890 .00010 6.38000 -2.00000190 .02890 .01870 .00050 .00000 6.38000 -2.00000190 .02890 .0187000290 .00010 6.38000 -2.000 .00090 .02890 .018900034000390 .00000 6.38000 -2.000 .00090 .02890 .018900013000090 6.38000 -2.000 .00090 .02890 .018900173000090 6.38000 -2.000 .00090 .02890 .018900013000000 6.38000	030 12.00001160 .03240 .02350048900177000050 6.37000 0.070 14.00002510 .03150 .01750068600222000050 6.37000 0.0220 16.00003420 .02960 .01520089900222000050 6.37000 0.0230 0.0050 0.0050 0.00500 0.01500 0.1352000550 0.00070 6.37000 0.01500 0.13520 0.0055000003 .00000 0.0000	030 12.00001160 .03240 .023500489001770000±0 6.37000 070 14.00002510 .03150 .01750068600202000050 6.37000 070 14.00002420 .02580 .01520089900222000060 6.37000 0230 20.00002560 .02580 .01500125600256000070 6.37000 070 0240 0.0003100005 0.00001002400016900003 .00000	030 12.00001160 .03240 .02350048900177000050 6.37000 070 14.00002510 .03150 .01750068500202002050 6.37000 070 15.00003420 .02960 .01520089900222000050 6.37000 0230 20.00006050 0.02580 .01500135200255000070 6.37000 0230 0.0003100005 0.000400025000003 .00000				5000.				00010.				,	つけのひた
BETA CNT CYT CYNT CRNT ALPHAH 240 -20.000 02850 .01600 .14220 .02370 .00090 6.37000 120 -16.000 01840 .03070 .02000 .00090 6.37000 120 -16.000 00840 .03180 .01600 .02040 .00050 6.37000 030 18.000 00840 .03180 .01600 .02040 .00050 6.37000 030 18.000 00110 .03180 .0140 .00050 6.37000 6.37000 10.000 00110 .03180 .0140 .04000 .0140 .00050 6.38000 <	030 15:00001150 .03540 .025500489001770000.0 5.37000 070 14:00002510 .03150 .01750068600202000050 5.37000 120 15.000025510 .02590 .01520089900222000050 5.37000 0.330 20.00002550 .02580 .01500135200255000070 6.37000 0.330 0.003100005 .00001002400015900003 .00000	15.00001150 .03540 .02550048900177000050 5.37000 .0270 14.00005510 .03150 .01750068600622000050 5.37000 .0270 14.00003420 .02860 .0150008800222000050 5.37000 .230 20.00006050 .02580 .01500135200256000070 6.37000 .230 CRADINI .0003100005 .00001002400016900003 .00000	14.00001150 .0340 .0255004890017700055 6.37000 14.00003420 .03150 .01750068600622000050 6.37000 15.0003420 .02960 .01620089300222000050 6.37000 23.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	100	000											
BETA CNT CAT CLMT CYT CYNT CNUT CBLT ALPHAN 1220 .02320 .00090 6.370000 6.37000 6.37000 6.37000 6.37000 6.37000 6.37000 6.37000 6.37000 6.37000 6.37000 6.37000 6.37000 6.37000 6.37000 6.37000 6.370000 6.370000 6.37000 6.370000 6.37000 6.37000 6.37000 6.37000 6.37000 6.3	070 14.00002510 .03150 .01750068600202000050 6.37000 120 16.00003420 .02960 .01620089900222000050 6.37000 6.37000 6.37000 6.37000 6.37000 6.37000 6.37000 6.00006050 6.37000 6.37000 6.37000 6.000006003 6.00000 6.0000000003 6.00000 6.00000	070 14.00002510 .03150 .01750068500202000050 5.37000 120 15.00003420 .02950 .01500089900222000050 6.37000 230 20.00005050 .02580 .01500135200255000070 6.37000 6.3	070 14.00002510 .03150 .01750068500202000050 6.37000 120 15.00003420 .02950 .01500089900222000060 6.37000 230 20.00005050 .02580 .01500135200255000070 6.37000 6.37000 GRADINI .0003100005 .00091002400016900003 .00000	20.00	000.	1000	7				- 01770			3	J	27
BETA CNT CYT CYNT CNT ALPHAM 240 -20.000 02850 .01600 .14220 .02320 .00090 6.37000 120 -16.000 01500 .03070 .02080 .02040 .00070 6.37000 -16.000 00884 .03120 .02080 .02040 .00070 <td>070 14.00002510 .03150 .0175006860020200050 6.37000 120 16.0000322000050 6.37000 6.3</td> <td>070 14.00002510 .03150 .01750068600202000050 6.37000 120 150 0089900222000060 6.37000 6.37000 6.37000 6.000006550 .02580 .01500135000256000070 6.37000 6.37000 6.000006050 .0003100005 .00001002400016900003 .00000</td> <td>070 14.00002510 .03150 .01750068600202000050 6.37000 120 16.00003420 .02960 .01620089900222000060 6.37000 230 20.00006050 .02580 .01500135200255000070 6.37000 GRADI NI .0003100005 .00001002400016900003</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>,</td> <td></td> <td></td> <td>•</td> <td></td> <td>2</td>	070 14.00002510 .03150 .0175006860020200050 6.37000 120 16.0000322000050 6.37000 6.3	070 14.00002510 .03150 .01750068600202000050 6.37000 120 150 0089900222000060 6.37000 6.37000 6.37000 6.000006550 .02580 .01500135000256000070 6.37000 6.37000 6.000006050 .0003100005 .00001002400016900003 .00000	070 14.00002510 .03150 .01750068600202000050 6.37000 120 16.00003420 .02960 .01620089900222000060 6.37000 230 20.00006050 .02580 .01500135200255000070 6.37000 GRADI NI .0003100005 .00001002400016900003								,			•		2
BETA CNT CYT CYNT CRBLT ALPHAM 240 -20.000 02850 .01600 .14220 .02370 .00000 6.37000 120 -16.000 01840 .02370 .02000 .02040 .00050 6.37000 -16.000 00840 .03370 .02000 .07000 .00050 6.37000 -17.000 00884 .03180 .01600 .07000 .00050 6.37000 -18.000 00884 .03180 .01600 .07000 .00060 6.37000 -19.000 00884 .03180 .01600 .07000 .00060 6.37000 -10.000 00110 .03260 .01600 .01710 .00000 6.38000 -10.000 00250 .02890 .01710 .00740 .00020 6.38000 -10.000 00250 .02890 .01710 .00740 .00020 6.38000 -2.000 00250 .02890 .01800 .00020 <t< th=""><td>20 15.00003420 .02590 .01520089900222000050 6.3700002200222000050 6.37000022000050 6.3700002200222000050 6.37000025002550</td><td>120 15.000342002560015200252000050 5.370000 5.3700000 5.3700000 5.3700000 5.37000000000000000000000000000000000000</td><td>120 15.00003420 .02960 .01620088900222000060 6.370000 6.37000 6.37</td><td>070</td><td>2</td><td>ביניייייייייייייייייייייייייייייייייייי</td><td>100</td><td></td><td></td><td></td><td>00000</td><td>0000</td><td></td><td>:</td><td></td><td>0100</td></t<>	20 15.00003420 .02590 .01520089900222000050 6.3700002200222000050 6.37000022000050 6.3700002200222000050 6.37000025002550	120 15.000342002560015200252000050 5.370000 5.3700000 5.3700000 5.3700000 5.37000000000000000000000000000000000000	120 15.00003420 .02960 .01620088900222000060 6.370000 6.37000 6.37	070	2	ביניייייייייייייייייייייייייייייייייייי	100				00000	0000		:		0100
BETA CNT CYT CYNT CNT ALPHAH 20,000 02850 .02690 .02370 .02000 .02370 .00000 .03700 .00000 .03700 .00000 .03700 .00000 .03700 .00000 .03700 .00000 .00000 .00000 .03700 .00000	120 16.06003420 .02960 .01620089900222000050 6.37000 830 830 80.00006050 .00580 .015001352000070 6.37000 6.37000 6.37000 6.37000 6.37000 6.37000 6.37000 6.37000 6.37000 6.37000 6.37000 6.37000 6.37000 6.37000 6.37000 6.37000 6.37000 6.370000 6.37000 6.370000 6.370000 6.370000 6.3700000 6.370000000 6.3700000 6.37000000 6.37000000 6.37000000000000000000000000000000000000	120 16.00003420 .02960 .01620089900222000060 6.37000 230 20.00006050 .02580 .01500135200255000070 6.37000 6.37	120 16.00003420 .02960 .01520089900222000060 6.37000 230 20.00006050 .02580 .01500135200256000070 6.37000 GRADINI .0003100005 .00001002400016900003 .00000	3	200.	01700.	0.00.	•			20202.	000000		,	Ť	0/024.
PETA CNT CLMT CLMT CVT CVT CVT CVT ALPHAM 120 - 10.000 02850 .01600 .14220 .02320 .00090 6.37000 120 - 16.000 01840 .02700 .02700 .02700 .02700 .02700 .02700 .02700 .00000 6.37000 070 - 14.000 00840 .03120 .02700 .02700 .00000 6.37000 6.37000 070 - 16.000 00010 .03120 .01800 .01710 .00000 6.37000 6.37000 080 - 10.000 00010 .03180 .01800 .02700 .00000 6.38000	250 15.000 - 0.03450 .06450 .01520 - 08390 - 08220 - 00050 5.37000 5.30 50.000 5.37000 5.30 6.37000 6.	230 - 18:000 - 18:40 -	230 - 10.000 - 10.3420 - 10.5450 - 10.5	35			000						1 1			
BETA CNT CAT CLMT CYT CYT CYT ALPHAM -20.00002850 .01600 .14220 .02320 .00090 6.37000 -16.00001500 .03070 .02080 .02290 .02040 .00090 6.37000 -16.0000088∪ .03180 .01600 .02320 .01700 .00050 6.37000 -17.0000088∪ .03180 .01600 .02750 .01700 .00050 6.37000 -17.0000088∪ .03180 .01650 .02750 .01700 .00050 6.38000 -17.00000810 .03850 .01850 .02750 .01210 .00050 6.38000 -17.00000070 .02890 .01800 .02750 .00830 .00020 6.38000 -17.00000070 .02890 .01710 .00740 .00080 6.38000 -17.00000070 .02890 .01710 .00070 .00080 6.38000 -17.00000190 .02890 .0181000070 .00090 6.38000 -17.00000190 .02890 .0181000340 .00000 6.38000 -17.00000190 .02890 .0181000340 .00090 6.38000 -17.00000190 .02890 .0180000340 .00000 6.38000 -17.00000190 .02890 .0180000340 .00000 6.38000 -17.00000190 .02890 .0180000340 .00000 6.38000 -17.00000190 .02890 .0180000340 .00000 6.38000 -17.00000190 .02890 .0180000340 .00000 6.38000 -17.00000190 .02890 .0180000340 .00000 6.38000 -17.00000190 .02890 .0180000340 .00000 6.38000 -17.00000160 .02890 .0180000340 .00000 6.38000 -17.00000160 .02890 .0180000340 .00000 6.3800000000 .00090 .02890 .0180000890 .00000 6.3700000000 .00090 .02890 .0180000890 .00000 6.3700000000 .00090 .02890 .0180000890 .00000 6.3700000000 .00090 .02890 .0180000890 .00000 6.3700000000 .00090 .00090 .00090 .00000 6.37000 .00000 6.3700000000 .00090 .00090 .00000 .00000 6.37000 .00000 6.3700000000 .00090 .00090 .00000 .00000 6.37000 .000000 6.37000 .00000 6.37000 .000000 6.37000 .000000 6.37000 .000000 6.37000 .000000 6.37000 .000000 6.37000 .000000 6.37000 .0000	230 20.00006050 .02580 .01500135500256000070 6.37000 GRADINI .0003100005 .00001002400016900003 .00000	630 20.00006050 .02580 .01500135200256000070 6.37000 GRADINI .0003100005 .00001002400016900003 .00000	230 20.00006050 .02580 .01500135200256000070 6.37000 6.8700000010002400016900003 .00000			1			•		בתתתם -		27000		1	במלת
EFTA CNT CYT CYT CYT CYT ALPHAM 240 -20.000 -02850 01600 -14220 -02320 -00090 6.37000 120 -16.000 -01500 -03070 -02000 -03070 -02000 -03000 -00090 6.37000 170 -16.000 -01800 -03120 -02600 -0770 -00000 6.37000 170 -10.000 -00110 -03120 -02600 -0770 -07000 -00050 6.37000 100 -10.000 -00110 -03030 -01710 -00050 6.38000 6.38000 100 -00000 -02800 -01400 -01400 -00020 6.38000 6.38000 950 -4.000 -00070 -02800 -01400 -00020 6.38000 6.38000 950 -4.000 -00040 -02800 -01400 -00020 6.38000 6.38000 6.38000 950 -00040 -02800 -01400 </th <td>230 20.00006050 .02580 .01500135200256000070 6.37000 GRADINI .0003100005 .00001002400016900003 .00000</td> <td>230 20.00006050 .02580 .01500135200256000070 6.37000 GRADI'NI .0003100005 .00001002400016900003 .00000</td> <td>230 20.00006050 .02580 .01500135200256000070 6.37000 GRADI'N1 .0003100005 .00001002400016900003 .00000</td> <td></td> <td></td> <td>) .</td> <td>,</td> <td>•</td> <td></td> <td></td> <td></td> <td></td> <td>2000</td> <td></td> <td>-</td> <td>201</td>	230 20.00006050 .02580 .01500135200256000070 6.37000 GRADINI .0003100005 .00001002400016900003 .00000	230 20.00006050 .02580 .01500135200256000070 6.37000 GRADI'NI .0003100005 .00001002400016900003 .00000	230 20.00006050 .02580 .01500135200256000070 6.37000 GRADI'N1 .0003100005 .00001002400016900003 .00000) .	,	•					2000		-	201
EVETA CNT CYT CYNT CNLT ALPHAM 240 -20.000 02850 .01600 .02320 .00030 6.37000 120 -16.000 01550 .02370 .02600 .02770 .02000 .02700 .02000 .02700 .020	E30 CRADI'NI00031000050000100240001690000300000	GRADI'NY00031000050000900240001690000300000	GRADI'NI .0003100005 .0002400016900003 .00000	75 220	כככ		פטעס					0000	0000			
EVA CNT CNT CLMT CYT CYNT CNT CNT ALPHAN EVO -20,000 - 0.2850	GRAD! NI . 00031 -, 00005 . 00001 -, 00240 -, 00169 -, 00003	GRADI NT . 00031 00005 . 00001 00240 00169 00003 . 00000	GRADI 'NT . 00031 -, 00005 . 00001 00240 00169 00003 . 00000	20.00	מסס.	00000.	incun.	•				- 000 /0	6.5/000	*	7	0.000
EFTA CNT CYT CYNT CNT ALPHAM 240 -20,000 -02850 01600 14220 02320 00000 6,37000 120 -16,000 -01550 03120 02000 03200 02000 03770 00000 6,37000 030 -16,000 -00894 03180 01600 05190 00000 6,37000 030 -16,000 -00894 03180 01600 01700 00000 6,37000 030 -16,000 -00890 01400 01480 00000 6,37000 10,000 -00890 01460 02000 01480 00000 6,38000 950 -0000 -00890 01460 00030 00020 6,38000 940 -2,000 -00890 01460 00030 00020 6,38000 940 -2,000 -00890 01460 00030 00020 6,38000 940 -2,000 -00890 01480 <td< th=""><td>N .0003100005 .00001002400016900003 .00000</td><td>N1 .00031 -,00005 .00001 -,00240 -,00169 -,00003 .00000</td><td>NT .0003100005 .00000002400016900003 .00000</td><td></td><td></td><td>1 1 1 1</td><td>1 1 1 1 1 1</td><td>•</td><td></td><td></td><td>,</td><td></td><td>)))</td><td></td><td></td><td>?</td></td<>	N .0003100005 .00001002400016900003 .00000	N1 .00031 -,00005 .00001 -,00240 -,00169 -,00003 .00000	NT .0003100005 .00000002400016900003 .00000			1 1 1 1	1 1 1 1 1 1	•			,)))			?
EFTA CAT CLMT CYT CYNT CRIT ALPHAM 240 -20,000 -02850 01600 -02320 00090 6.37000 120 -16,000 -01500 -03770 02900 -07370 01600 6.37000 14,000 -00880 03120 02000 07370 01900 6.37000 15,000 -00880 03180 01600 07370 01900 6.37000 16,000 -00880 03180 01600 07370 01900 6.37000 10,000 -00010 03330 01600 0740 00040 6.37000 960 -6.000 -00250 02800 0170 00040 6.38000 950 -4.000 -00210 0740 00040 6.38000 940 -3.000 -00210 0770 00040 6.38000 940 -00010 02870 01180 00010 6.38000 940 -00010 07280	00000; - 80100; - 04000; - 10000; - 10000; - 10000;	00000: S0000:- 88100:- 05300:- 10000: 50000:- 15000:-	00000: 50000: 50100: 05500: 10000: 10000: 10000: 10000:		IN COVER	ויייטט	ויייייייייייייייייייייייייייייייייייייי				03100 :-	20000		7	•	100
EFTA CAT CLMT CYT CYNT CRIT ALPHAM 240 -20,000 02850 .01600 .0090 6.37000 .02000 .02320 .00000 6.37000 170 015,000 00180 .03120 .02000 .07370 .01000 .00050 6.37000 190 0010 .03180 .01600 .07370 .01900 .00050 6.37000 100 0011 .03330 .01440 .04000 .01900 6.37000 960 00770 .03300 .01800 .00040 6.38000 960 00770 .02800 .01800 .00040 6.38000 960 00770 .02800 .01800 .00040 6.38000 960 00701 .02800 .01800 .00040 6.38000 960 00701 .02800 .01800 .00040 6.38000 960 00190 .02800 .01800 .00040 6.38000						.0000.		•	_					5	3	<u> </u>

PAGE (AG0079) AT70AT71 T28.1 TABULATED SOURCE FORCE DATA - CA11 (UMAL1146) CA11UMAL1146(1NT) KIH15.7V9.4

_
UMAL 1 146
_
CAI
ŧ
DATA
FORCE
SOURCE
SULATED

127	~		960000																		
PAGE	(14 NOV 75				<u>.</u>	- 49730	149780	50760	52220	55140	54170	55040	55840	61210	63380	. 14370	69880	71180	729%	ロイオオケ・・	00611
	(AG0099)	PARAMETRIC DATA	.000 STAB .000 ELV-08 .000 RUD-L .000 RTANK		ALPHAT	-6.46680	-4.27800	-2.08760	04490.	2.22640	4.38800	6.55180	8.69640	10.83040	12.95090	14.94090	17.03070	19.00030	21 . 03820	23.07490	1.00271
		PARA	• • • •	5.00	BETA	00000	00000	00000	00000.	00000	00000	00000	. 30000	00000	00000	00000.	୍ତ୍ରତ୍ତ :	. 10000	00000.	00000	. 30000
	128.1		BETA ELV-18 RUD-U 1TANK	-5.00/	CBL T	00010	. 00000	. 00000	00000	.00010	01000.	.00010	01000.	. 00000	.00020	.00020	. 00020	. 00030	.00030	. 00030	. 0000e
146)	11 AT86AT87			INTERVAL .	CYNT	00100	.00060	.00070	06000.	.00050	.00070	0.000	. 00080	. 00000	.00070	00800	00010	00060	01000.	00020	00003
- CA11 C UMAL 1146	15.679.1017			GRADIENT	CYT	.00540	00030	0+100	08100.	00010	00100.	0,000.	000030	00:80	01100.	4307c	.00250	30020	.00500	.00120	00041
	CAIIUWALII46(INT)KIH15.6V9.1CIVII AT86AT87		IN. XT IN. YT IN. ZT	06.	CLMT	03960	02980	02530	01150	00120	04600.	. 02090	.03330	.04680	.05780	.00480	.07620	. 08750	. 09660	.10560	00439
SOURCE FORCE DATA	CA11UMAL1		1348.0000 11 10000 . 402.0000 11	3/ 0 RN/L	CAT	. 00130	00540	01+00.	.00750	01040	.01160	.01170	.01230	.01230	.01310	. 02050	01170	01320	. 02230	- 01890	.00100
TABULATED		ΙΤΑ	XMRP YMRP = ZMRP	RUN NO. 99	CNT	02580	01890	01770	01270	00860	00370	01000.	. 00460	.01180	.01850	.01720	. ~2720	.03560	. 04250	040.	.00137
		REFERENCE DATA	2000 SQ.FT. 7800 IN. 2000 IN.		ALPHAH	0+1.4-	-2.250	070	2.080	4.230	6.370	8.520	10.650	12.780	14.890	16.960	18.950	20.910	22.930	24.960	GRADIENT
DATE 15 NOV 75		"	SREF = 5500.0000 LREF = 327.7800 BREF = 2349.0000 SCALE * .0400		σ	36.030	35.000	35.990	35.990	35.990	35.990	35.990	35.020	36.080	35.170	35.290	35.410	36.530	36.650	36.800	

SREF LREF BREF SCALE

-1.960 .000 .000 75 48200 48830 48830 48830 48830 48830 68300 > 2 STAB ELV-08 RUD-L RTANK u PARAMETRIC DATA (AG0100) 5.00 ALPHAM ELV-18 RUD-U 1 TANK -5.00/ CA11UMAL1146(INT)KIH15,6V9.1C1V11 AT86AT87 T23.1 CYNT . 02300 . 01530 . 01530 . 00530 . 00530 . 00530 . 00530 . INTERVAL **GRADIENT** 8 XXX • żżż RN/L 1348.0000 10000 10000 105.0000 0 <u>2001</u> 0.0770 0.03310 0.02140 0.0320 0.0130 0.0130 0.0130 0.0120 SE SE XMRP YMRP ZMRP REFERENCE DATA 16.000 16.000 17.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0 327.7800 2348.0000

126 PAGE

146)
CHAL11
- CA11
ATA .
FORCE 1
SOURCE
TAPULATED

7	NOV 75		7		<u>.</u>	50700	51450	50740	51580	53090	. 53130	53260	.53183	52900	52320	52220	52900	52710	52220	53190	53860	54040	52840	52020	49830	49020	07674	48550 30065
	*		877		٥	i	i	·	ï	'n	•	,	ï	ï	i	i	ï	i	i	'n	i	ï	i	i	ï	ŗ	í	ii
	(10	C DATA	STA9 ELV-08 RUD-L RTANK		ALPHAT	4.40150	.39960	4.40170	4.39660	4.39230	4.39370	9280	9190	. 39320	.39170	9360	9140	38970	9250	9070	9360	4.39300	4.33490	4.40230	4.40890	4.40570	4.40700	39900
	(AG)101)	PARAMETR1C	6.000 .000 .000		Ą	5 .	Ψ. 1	±	t	T	¥.	, W	¥.3	¥.3	M t	4.3	¥.3	M	¥.3	M. ★	٠. خ	۳. خ	M.	\$. \$	₹ \$	5. 5	J.	M O
		PAR	ALPHAM + ELV-18 + RUD-U = ITANK +	5.00	ALPHAM	6.37000	6.37000	6.37000	6.37600			6.37000		6.37000	6.37000		6.37000	6.37000	6.37000	6.37000	6.37000		6.37000					6.37000
	128.1		- 3E-	-5.00/	CBLT	06000.	0.00070	.00060	04000.	04000.	.00030	.00030	.00020	.0000	.00020	01000.	01000.	00000.	00000	00000.	00000	00010	00010	00010	00020	00020	00030	000050
0 0 1	CAIIUMALII46(INT)KIHI5.6V9.1CIVII AT86AT87 T28.1			I INTERVAL =	CYNT	. 02020	01740	01540	.01390	.01190	.01020	06200.	. 00600	004400.	.00290	.00150	.00010	06140	00310	00470	00580	00830	01060	01190	01380	01540	01720	02190
CA11 1 UMAL1140	H15.6v9.1C1			GRADIENT	CYT	. 12250	.07960	.05510	.03790	. 02590	.01320	. 00650	.00480	08400.	00340	005.00	001100	00050	00850	01030	00810	00830	01580	02270	03500	04900	06570	10740 00205
MCE DAIA	.1146(INT)KI		IN. XY	RN/L = .00	כנשז	01080	04400.	.01170	. 90920	.01100	.01340	.01220	.01200	.01260	.01120	.01260	.01230	. 00960	01180	.01040	00110	.01360	01410.	.01690	.01620	08600.	.00410	01110
AIEU SOUNCE FUNCE DAIA	CA11UMAL		1348.0000 .0000 402.0000	101/ 0 RN	CAT	.00630	. 01720	.01400	.01560	.01510	.01620	.01720	.01470	.01480	01470	.01260	.01230	.01200	.01200	.01270	0110.	.01530	.01900	.01550	.01360	.01120	.01170	.00890
I ARULA I		ATA	XHRP YHRP ZHRP	RUN NO.	CNT	05110	02410	01450	01310	00560	00320	00430	00380	00420	03480	00460	00270	00540	00460	00500	00230	00210	00340	00730	01500	02210	03270	
		REFERENCE DATA	0000 SQ.FT. 7800 IN. 0000 IN. 0400		BETA	- 20.000	-16.000	-14.000	-12.000	-10.000	-8.000	-6.000	-4.000	-3.000	-2.000	-1.300	000.	1 . 000	S. 000	3.000	₹.000	6.000	8.000	10.000	12.000	14.000	16.000	20.000 GRAD [ENT
04 15 15 15 15 15 15 15 15 15 15 15 15 15			F = 5500.0000 F = 327.7800 F = 2348.0000 NE = .0400		O	36.310	36.190	36.140	36.100	36.060	36.030	36.010	36.000	35.990	35.990	35.990	35.990	35.930	35.990	35.990	36.000	36.010	36.030	36.060	36.100	36.130	36.190	36.300
5			SREF LPEF BREF SCAL																									

8000

CALLUMAL 1146(1NT) KIHIS. 6V9. 1CIVII AT86AT87 T28. 1

PARAMETRIC DATA	.000 ELY-08000 .000 ELY-08000 .000 RUD-L000 .000 RTANK000		ALPHAT OP! 10.8712055460 10.8673056220	1 1	10.8597055850 10.8442055180		• •	10.8390056260 10.8393056160	1 1		10.8385058270		•	1	10.8559054230 10.8465053580	1
PAR	ALPHAM = 18 ELV-18 = RUD-U = 1 TANK =	-5.00/ 5.00	CBLT ALPHAN .00090 12.77000 .00070 2.78000			N O	.00020 12.78000 .00020 12.78000			.00000 12.78000				.00020 12.78000		•
		GRADIENT INTERVAL .		.01460	.01160	01,000.	.00140	0.0000	00120 00210	00270	00580	-,00930	01300	01430	01950	•
	00 IN. XT 00 IN. YT 00 IN. ZT	RN/L = .00 G	CLMT . 03860 . 04903	.05390	.05790	.05250	05370	.05150	. 05330	.05080	04250.	.05580	.05450	04980	. 02260	. 00002
17	XMSP = 1348,0000 YMSP = ,0000 ZMSP = 402,0000	RUN NO. 1027 3	0446000210 0238000380												0446000930	
REFERENCE DATA	SREF = 5500.0000 SO.FT. LREF = 327.7800 IN. BREF = 2348.0000 IN. SCALE = .0400		0 BETA 36.410 -20.000 36.290 -16.000													GRADIENT

PAGE 130

C ST WON PI

(A60102)

ü	
U	
•	
C L	
٠	
•	
=	
E347	
•	
•	
_	
F	
3	
Š	

DATE 15 NOV 75		TABULATED		SOURCE FORCE DATA - CALL (UNALLIYE	AII (UMALI	146)				PAGE	131
			CATTUMAL	CATIUMALITYBEINTIKI	1.64	AT70AT71 T28.1	1 728.1		(800072)	20 OCT 7	ξ.
•	REFERENCE DATA	ITA						PAR	PARAMETRIC DATA		
SPEF = 9500.0000 LREF = 327,7800 BPEF = 2348.0000 SCALE = .0400	3600 SQ.FT. 7800 IN. 3000 IN.	XMRP	1348,0500 0000, 402,0000				38 F.	BETA RUD-L RTAPK	.000 RUD-U .000 ITANK .000	11	000.
		RUN NO.	72/ 0 RN/L	۰۲ ۳.	GRADIENT	INTERVAL	-5.00/	5.00			
đ	ALPHAW	a G	540	0P3	₹dD	CYN	CBL	BETA	ALPHA"	8 0	
35.970	4.400	65870	67430	56160	66940	00030	00010	00000.	-6.50573	. 02990	
35.95	-2.270	66020	67580	66020	67480	.00050	00010	00000	-t . 31 080	.03060	
35.930	- 090	67210	68280	66920	67930	. 00010	00000	00000	-2.11070	.03000	
35.930	9 .060	68280	69450	67890	69350	00000.	00000	00000	.04703	.02900	
35.930	4.210	69160	71110	70230	70810	. 00020	01900.	00000	2.20313	. 02860	
35.930	6.360	71500	72570	70620	71980	01000.	00000.	00000	4.38230	. 02780	
35.940	8.500	71960	73030	7!380	72350	. 03030	01000.	.00000	6.54700	. 02700	
35.960	10.630	71340	73090	72510	73970	00000.	. 00010	.00000	8.69543	. 02580	
36.010	12.760	73960	75100	73860	75320	. 00030	.00010	00000.	10.83520	. 02540	•
36.090	14.880	07747	76610	75450	07777	04000.	00000	.00000	12.97020	07720.	
36.200	16.940	77150	79180	77050	- 78890	.00050	00000	. 00200	15.05680	. 02330	
36.310	18.950	78270	80100	78360	80000	.00050	. 00000	. 30000	17.07150	. 02250	
36.410	20.910	79300	91320	79300	80940	01000.	.00000	00000	19.06130	02540	
36.510	22.950	79850	81860	79760	81770	. 00060	. 00000	00000	21.1145	. 02050	
36.610	£.990	80110	82310	80300	81930	.00070	.00000	00000	23.15830	01930	
	GRADIENT	00408	00426	00462	00443	. 00002	. 00002	00000	1.00580	00019	

3

DATE 15 NOV 75		TABULATED		SOURCE FORCE DATA - CAII (UMALII46	AII CUMALI	146)					PAGE 132	•
			CAI IUMAL	CALIUMALII46(INT)KIHI5.	115.1	AT70AT71 T28.	128.1		(860073)	_	20 OCT 75	~
A	REFERENCE DATA	ATA						PAR	PARAMETRIC	DATA		
78EF = 5500,0000 LREF = 327,7800 BREF = 2348,6000 SCALE = .0400	00 SQ.FT.	XX450 XX450 XX450	1348.0000 0000 402.0000	IN. YT			A.U.E.	ELV-18 -	0000.	STAB . ELV-08 . RTANK .	-1.930 .000 .000	222
		RUN NO.	73/ 0 5	PR1/1 = 100	GRADIENT	GRADIENT INTERVAL .	-5,007	5.90				
	BETA	8	540	DP3	Š	Z.	ŧ	AL PHAM	AL PHAT		V	
36.150 150	-20.000	45310	46180	45890	47340	. 32690	. 00100	6.37000	4.41800	_	05550	
	0000	20/00		059/5.	59500	. 02320	.00060	6.37000	1001	_	05-200	
	000	015/5		0.00440	00975	02100	00000	6.37000	4.40360		03060	
380	-10.000	56220	57680	56810	57970	01650		5.37000	0/101/1 101/101/1	2.5	0.5140	
960	-8.00¢	56450	56840	55960	5762 0	00710.	.00030	6.38000	4.39840		06620	
9	-6.000	57920	58220	56370	58120	.01000	02000	6.38000	4.39940		.03000	
S 8	-t- 000	57830	58610	58800	58800	.00660	.00010	6.38000	4.39660		.02970	
> c	3.000	26770	59300	57450	57260	. 00500	.00020	5.38000	4.397		05850	
930	000.1-	57180	- 598670 - 59030	၁೮ ೮ ೭೭	58430 - 57950	. 00320	0000.	6.38000	4.39870		02930	
930	000.	57370	-,59130	- 56890	56300	000050	00000	6.38000	00750E		05830	
<u> </u>	000.	55930	57260	56530	56490	00200	.00000	6.38000	4.39140		02870	
9 G	000	55020	55020	0 ;	55990	00370	.00000	6.38000	4.39070	•	05850	
	000	- 54710	- 556030	1.554.0 54.7.0	55800	00550	00000	6.38000	4.39520	•	070	
320	6.000	55200	- 55980	0.646	- 45590	02020 -	2000.	7 28000 28000	101	•	02020	
35.960	B.000	52170	51780	52070	53430	01430	00020	6.38000	4.41210		05360	
35.980	10.000	50090	- , 48540	50580	50000	01690	00030	6.38000	00111	•	05620	
36.000	12.000	47730	50160	48610	-, 49190	01940	00040	6.37000	4.42410		03003	
36.020	7.000	46250	47030	47030	47030	02170	00050	6.37000	0 * * 5 * * 0		.02850	
36. 050	16.000	47570	47960	48250	48250	02+10	00060		4.42380	_	.02780	
30	20.000	48430	48430	47760	47560	02760	00070	6.37000	4.43940	_	.02350	
3	GOODEN	80500.	95500.	80500.	21 400.	00175	00002	. 00000	-,000,-	· -	00013	

1

(

Ŧ

1

1

C UMAL 1146)
- CA11
DATA
FORCE
SOURCE
TABULATED
15 NOV 75

5 2 CI	ú		TABULATED		SOUNCE FONCE DATA - C	CA11 (UMAL1146	- 9					A STATE	^
				CALLUMA	CALIUMAL (146 CINT) KIHIS. 7V9.4	4.57.4	AT70AT71 T28.1	128.1		(860077)	~	20 OCT 75	~
	REFERE	REFERENCE DATA	۲						PAR	PARAMETRIC	DATA		
See N	3500.0000 357.7800 357.7800 5348.0000	E. S. S.	- deleta Aleka Zieta	1348.0000 .0000 402.0000	X X X X X X X X X X X X X X X X X X X			A 985	ALPHAM ELV-1B RUC-U ITANK	8.000 .000 .000 .000	STAB ELV-OB RUD-L RTANK	7	0000
		•	RUN NO.	R 0 177	RN/_ = .30	GRADIENT	INTERVAL -	-5.00/	5.00				
ø	38	*	ã	₽₽Q	D63	đ C	Z X	<u>ස</u>	ALPHAM	ALPHAT	tat	OC A	
36.230	-80.	000	60570	58930	55800	58730	C2430	.00100	2.08000	103	350	. 02580	
36.110	-16.	200	- E155	- 62510	61160	62320	. 02150	. 20060	2.08000	. 08560	960	. 02890	
36 050		200	62E30	- 64.350	61°20	63470	.01920	.00053	2.08000	.07550	980	00000.	
35.020	006.11-	900	62190	62950	61930	53250	.01680	.00000	2.08000	.06570	570	CO001G	
35.930	-10	000	62330	63530	. 62330	63230	.01460	.00030	2.08000	11 mg ()	0	. aga: c	
35.970	8	000	63240	- 64410	- 62660	63730	.01160	.00030	2.08000	. 0 592 0	920	39752	
35.960	φ	000	63850	65010	63850	64820	01600.	.00033	2.08000	. 0605(350	. ମଧ୍ୟନ୍ତ	
35.950	*	000	63230	64650	- 63690	64950	.00610	. 00020	2.08000	. 05760	760	.02950	
35.940	 M	000	63590	54370	63390	63780	.00480	.00023	2.08000	. 05690	900	. 02860	
35.940	ئم	000	62910	63690	62320	-,63590	. 00280	. 00020	5.08000	. n5810	016	.02870	
35.940	7	000	- 6,350	63100	62133	63200	01100	00000	2.00000	.05970	970	0:620:	
35.940	•	000	- 62130	62710	61350	62710	00060	01000.	2.08000	.05750	750	.02830	
35.940	_	000	6::53	- 62420	60 960	62030	00250	.00000	2.08000	. 05690	069	. 02900	
35.940	'n	≥.000	60570	61450	53890	61060	00+00	.00000	€.08000	00450.	00	. 02900	
35.940	N	006	59790	61150	- 60260	61060	00530	.00000	€.08000	. 05490	061	0.620	
35.956	÷	000	59376	61140	60360	61!40	00730	90010	€.08000	.05720	720	. 02950	
35.960	Ġ	6.000	60340	61700	60630	60930	07010	00020	2 . 38000	. 05920	920	.03050	
35.970	œί	000	6:490	63730	51780	62950	01340	00020	S. 08000	06+90	06,	.03110	
35.990	0	000	63790	64180	63110	64670	01590	00020	2.08000	.07800	300	. 03200	
36.030	<u>~</u>	00c	63140	63E 70	62850	63140	01830	0.000	2 . 08000	09680 .	960	.03180	
36.070		000	63360	6"720	63360	64330	02020	0,000 -	2.08000	. 09860	360	.03120	
36.110	9	000	64070	- 7+360	63580	64070	02220	00060	2.08000	101	10330	.03010	
36.230		000	63080	53560	63470	64050	02600	- 00080	S. 08000	Ħ.	3440	. 02690	
	GRADI	ENT	.00531	70 700 ·	18400.	66+00.	00172	0000 ·-	00000	0003	31	.00003	

ORIGINAL PAGE IN OF POOR QUALITY

DATE 15 NOV 75		TABULATE	TABULATED SOURCE FORCE DATA	1	C111 (UMAL1146	146)					PAGE 134	
			CAI IUNIAL	CALIUMALII4S (INTIKIHIS, 7V9.4	115.779.4	AT70AT71 T28.1	128.1		(800078)	-	20 OCT 75 1	
	REFERENCE DATA	ATA						Ž	PARAMETRIC D	DATA		
SPEF = 5506,0000 LPEF = 327,7300 BPEF = 2348,0000 SCALE = .0400	0000 SQ.FT. 7300 IN. 0000 IN. 0430	XI-RRP YI-RRP ZI-RRP	1348.00/J0 .0000 402.0000	IN. XT			495=	ALPHAH = FLV-18 = RUD-U = 1TANK = 1	000. 000. 000. 8 8 8 8	STAB ELV-08 RUD-L RTANK	0000. 0000.	
		RSN NO.	78/ 0 RN	RN/L00	ORADIENT	INTERVAL .	-5.00/	5.00				
0	BETA	ā	240	200	3	Z	8	AL PHALI	AI PHAT		5	
2. K	-20.000	60550	- 59590	58910	60360	.02320	06000	6.37000	4.42170		0520	
26.120	-16.000	63180	64240 -	63090	63950	04080.	0000	6 37000	4.41510		.03070	
50.5	-14.000	63360	64910	64040	64040	01610.	29000.	6.37000	\$.410\b		03120	
36.030	-12.000	64300	04980	64300	64500	.01700	.000%	6.37000	4.40310		.03190	
36.000	-10.000	64550	64460	63970	64160	08+10.	@1000°	6.37000	4.39350		.03030	
260	-8.000	- 64100	64980	63710	65070	.01210.	00030	6.38000	4.39640		.03050	
5. 1 50 190 190	-6.000	63 . 60	65110	63750	63940	.00930	92000 ·	6. 38000	4.39260		02890	
56.95 56.95	-4.000 -4.000	63960	0.35. -	63860	54660	.00610	. 0002.1	6.38000	4.39280		. 02930	
33.940	-3.000	62620	64173	63300	63200	. 00460	. 6002C	6.38000	4.3969		02930	
25.02	-2.000	62620	63000	. 62420 	63300	. 00330	.00020	6.38000	4.3977		. 028'+0	
50.00 50.00	000.1-	62230	63200	52130	63000	00110	C1000.	6.38000	4.3324		. 028 70	
	2	1.56030	1.36460	62130	63100	00050	00000	6.38000	4.39540		. 02850	
35.940	2.000	60290	6.50	- 67280	51350	00.500		7. 10000 1. 10000	3.555.4 05.05.4		. 06850	
35.950	3.000	59680	60650	- 5900	60360	00540	00000	6.38000			05300	
3.95	₹.000	59000	59680	59090	53680	00740	00000	6. 36000	4.39330		.02930	
28. 28.	6.000	- 59470	60930	- 58980	59170	01050	00010		4.40010		.02980	
35.986	9.100	59720	60600	60020	61180	01330	00020		4.40520		.03110	
36.003	200 01	59980	60860	59110	60270	01580	00C30	6.370°-J	0.4004.4		03200	
	12.000	601.30	60520	60229	60220	01770	00030		4.41710		.032+0	
30.073	000.	59380	60450	. 59960	60640	02020	0005()	6.37000	4.42070		03150	
P. 1.51	16,000	60460	61920	60270	82590	0222¢	2006.)	6.37000	4.42720		. 05550	
36.250	20.000	06759	63850	63089	63270	02560	00070	6.37300	4.45010		.02580	
	GRADIENI	0/500.	57500.	. 00626	. 00522	00169	00003	.00000	00027		00005	

SREF LREF BREF SCALE

85 TS 00850 008950 008950 008950 008950 008730 008710 008710 008710 008950 008950 008950 008950 008950 008950 008950 008950 008950 008950 ស្ល STAB ELV-OB RUD-L RTANK PARAMETRIL DATA ALPHAT
ALPHAT
10.898830
10.858863
10.8588630
10.8588630
10.8588630
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830
10.858830 (800028) 12.030 .000 .000 .000 5.00 ALPHAM ELV-18 RUD-U AT70AT71 T28.1 ι'n GRADIENT 0094 0.00580 1.0535160 1.054230 1.054330 1.054330 1.054310 1.055060 1.055060 1.053030 1.05300 1.053030 1.053030 1.053030 1.053030 1.053030 1.053030 1 CA11UMAL! 146(1NT)K1415.7V9.4 80. PP3
- 60290
- 60290
- 63280
- 63380
- 63380
- 63380
- 63380
- 63380
- 63380
- 63380
- 63380
- 63380
- 63380
- 63380
- 63380
- 63380
- 63380
- 63380
- 63380 XYZ Z zzz 1348.0000 .0000 402.0000 79/0 60960 60880 60880 60880 60880 60880 63750 64410 64410 64410 64410 65160 65160 65160 65160 65160 65160 65160 XMRP YMRP ZMRP SCN NO REFERENCE DATA SQ.FT. IN. IN. BETA
-16.000
-14.000
-16.000
-16.000
-17.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000
-19.000 5500.0303 327.7800 2348.0000 36.080 36.030

TABULATED SOURCE FORCE DATA - CAI' (UWALII46)

-1.930 .000 .000 PAGE 136 20 OCT 75 02930 02930 02930 02930 02930 02930 02930 02930 02930 02930 02930 02930 02930 02930 02930 02930 02930 02930 STAB ELV-08 -RUD-L RTANK PARAMETRIC DATA ALPHAT
-6.49540
-1.209640
-2.09640
-2.09640
-2.209640
-2.209640
-2.209640
-2.209640
-2.209640
-2.209640
-2.209640
-2.209640
-2.209640
-2.209640
-2.209640
-2.209640
-2.209640 (BC0080) 00000 BETA ELV-19 RUO-U I -5.00/ 5.00 AT70AT71 T28.1 SRADIENT INTERVAL . 000020 . 000010 . 000010 . 000010 . 000020 . 000030 . 000030 . 000030 . 000030 ...55170 ...553170 ...553870 ...59890 ...59890 ...61920 ...61320 ...63720 ...63720 ...63720 ...63720 ...63720 ...63720 ...63720 ...63720 ...63720 ...63720 CA11UMAL1146(INT)KIH15.7V9.4 ...59460 ...59410 ...59110 ...59110 ...59110 ...59110 ...59130 ...59130 ...59260 ...59260 ...59260 ...59260 ...59260 ...59260 ...59260 ...59260 ...59260 XY. RN'L <u>zzz</u> 1348.0000 1 .0000 1 .402.0000 1 DP2 - 56140 - 57650 - 57650 - 58820 - 68820 - 61740 - 61740 - 62110 - 62010 - 68620 - 69650 - 73330 - 73500 - 73500 - 73500 - 73500 - 73500 - 73500 - 73500 - 73500 - 73500 - 73500 - 73500 - 73500 - 73500 - 73500 - 73500 - 73500 - 80/0 - 55460 - 56170 - 57650 - 57650 - 60380 - 62130 - 62110 - 64110 - 64110 - 64560 - 71340 - 73240 - 75200 XMRP YMRP ZMRP S N REFERENCE DATA ALPHAM

-4.440

-2.250

-2.250

2.080

8.380

8.520

10.650

112.780

115.980

116.980

22.910

24.960

GRADIENT S0.F1 5500.0000 327.7800 1 2248.0000 1 35. 27.0 36. 27.0 36. SREF LREF BREF SCALE

TABULATED SOURCE FORCE DATA - CAII (UMALII46)

DATE 15 NOV 75		TABULATED	_	SOURCE FORCE DATA - CAII (UMALII48	SATT CUMALI	146)				PAGE 137	_
			CATTUMAL	CATIUMALITYGIINT)KIHIS.GV9.ICIVII ATBGATB7 T28.1	415.6V9.1CIV	11 ATBEAT87	T28.1		(860098)	(20 OCT 75	~
Œ	REFERENCE DATA	ATA						PAR	PARAMETRIC DATA		
SREF = 5500.0000 LREF = 327.7800 BREF = 23%8.0000 SCALE = .0400	000 SQ.FT. 800 IN. 000 IN. 400	XMRP = ZMRP =	1348,0000 0000 402,0000	IN. XT IN. YT IN. ZT			ЯŸŠ;	BETA ELV-18 RUD-U	.000 STAB .000 ELV-OB .000 RUD-L .000 RTANK	1.960 0.000 1.000	8888
		RGN NO.	99/ 0 RM	RN/L00	GRADIENT	INTERVAL .	-5.00/	5.00			
ø	ALPHAM	100	240	0P3	†	CYN	CBC	BETA	ALPHAT	V UQ	
36.030	074.4-	49730	50320	50120	50320		00010	. 00000	-6.46680	. 00130	
36.000	-2.250	49780	50840	50160	50360		.00000	00000	-4.27800	0.400°.	
	070	•	51730	50760	50860	0,000.	. 00000	00000	-2.08760	01,00	
	2.080	•	53580	53100	53390		.00000	.00000	04490.	. 00750	
	4.230	55140	55820	55140	54940	. 00050	.00010	00000.	2.22640	01040	
	6.370	•	55040	54170	54550	.00070	01000.	00000	4 . 38800	.01160	
	8.520	ı	55720	55330	55230	.00070	.00010	000.0	6.55180	.01170	
	10.650	1	58010	5665n	57130	.00080	01000.	00000.	8.69640	.01230	
	12.780		61690	60:+30	60720	00000.	.00000	00000.	10.83040	01230	
	14.890	•	04449	63670	65020	.00070	.00000	00000	12.95090	.01310	
	16.960		66450	58280	67410	00800	. 000020	00000	14.94090	. 02050	
	18.950	69880	71130	39590	07507	00010	.0000	00000	17.03070	07110	
	20.910	•	72620	71280	72140	00060	.00030	00000	19.00030	- 01320	
	22.930	72940	74270	73700	73990	01000.	.00030	00000	21.03820	. 02230	
	2¥.960	١	76460	75510	76080	30020	.00030	00000.	23.07490	01890	
	GRADIENT	+	00633	-,00598	00565	00003	.00002	00000	1.00271	. 00107	

TABULATED SOURCE FORCE DATA - CAI; (UMALI145)

PAST 178

(20 OCT 75)		0000		PCA	.01430	01900	. 02050	.01820	.01680	.01500	.01250	.00720	. 00750	.00730	.00710	. 00660	. 00720	00600	.00730	.01350	.01430	.01700	.01810	.01880	.01710	.00950	0002B
(800100)	PARAHETRIC DATA	2.000 STAB .000 ELV-OB .000 RUD-L .000 RTANK		ALPHAT	.06890	. 06520	.06590	.06330	.06140	. 0581 ნ	.05910	. 06350	. 06730	. 06860	. 06720	.06750	.06320	. 06270	.06140	. 06390	. 06610	.07820	.08370	00480.	. 08460	.08210	¥0000·-
-	PARAI	ELV-18	5.00	AL PHAM	2.08000 08000	2.08000	2.08000	2.08000	2.08000	€.08000	€.09000	<u>د</u> 08000	2 . ს3000	S.08003	2.08000	S 08000	2.08000	5 .08000	S. 08000	€.08000	S.08000	2.08000	2.08000	2.08000	2.08000	2.08000	00000
128.1		P. P. P. P. P. P. P. P. P. P. P. P. P. P	-5.00/	된	. 00090	02000	.00030	05000.	.00030	. 00020	.0000	01000.	.00010	.00010	00000.	00000.	00000	00010	00010	00020	3030	00030	00030	04000'-	00050	00070	00003
11 ATESATB7 T28.			GRADIENT INTERVAL .	CYN	.02300	.01780	.01610	.01330	.01130	00600.	.00680	. 00530	.00350	.00170	00010	00200	00370	00530	00690	00960	01220	01380	01570	01780	01950	02340	٠٠.001 ٢٩
15.609.1017			GRADIENT	1	- 50140	50550	51010	51070	51690	52400	53290	53290	52800	53000	52710	52900	52800	52710	52710	52010	51400	50090	50150	49400	48460	+6580	. 30069
CA11UMAL1146(INT)K1H15.6V9.1C1V11		IX. IN. YT	ال = .00	093	1.48500	- 49020	49650	49710	50143	50360	52900	52610	51930	51540	51540	51350	51540	51350	51540	50160	43840	48830	48110	48050	-, 46920	46100	. 00170
CA11UMAL		1348.0000 .0000 402.0000	100/ 0 RN/L	500	50230	50760	51110	51160	51790	52400	54170	54070	53190	53390	53390	52800	52710	53100	52800	51530	50910	50480	49760	49310	48750	47450	.00166
	ATA	XXARP XARP ZARP	RUN NO. 1	1-00	- 48610	48430	48680	49510	49550								50960									'n	. 0009 <i>2</i>
	REFERENCE DATA	0000 SQ.FT. 7800 IN. 0000 IN.		BETA	-16.000	-14.000	-12.000	-10.000	-8.000	-6.000	-4.000	-3.000	-2.000	-1.000	000	000.	2.000	3.000	£.000	6.000	8.000	10.000	12.000	14.000	16.000	20.000	GRADIENT
	-	SREF = 5500,0000 LREF = 327,7800 BREF = 23v8,0000 SCALE = .0400		a j	36.300	36.130	36.090	36.050																			

TABULATED SOURCE FORCE DATA - CAII (UMALII46)

DATE 15 NOV 75		TABULATED	D SOURCE FORCE	DATA -	CAII (UMALII46	146)				PAGE 139	
			CALLUMAL	1146(INT)KI	H15.6V9.1C11	CAIIUHALII46(INT)KIHI5.6V9.ICIVII ATBGAT87 T28.I	T28.1		(860101)	(20 OCT 75)	
uc.	REFERENCE DATA	ATA						PAR	PARAMETRIC DATA		
SREF = 5500.0000 LREF = 327.7800 BREF = 2348.0000 SCALE = .0400	0000 SO.FT. 7800 IN. 0000 IN. 0400	XMRP YMRP ZMRP	1348.0000 .0000 402.0000	IN. XT IN. YT TX. ZT	•		ALPHA EL 4-1 RUD-U I TANK	ALPHAM = EL 7-18 = RUD-U = ITANK =	6.000 STAB .000 ELV-10.000 RUD-1-000 RATAN	STAB = -1.960 ELV-08 = .000 RUD-L = .000 RTANK = .000	
		RUN NO.	NR 0 /1C1	RN/L90	GRADIENT	INTERVAL .	-5.00/	5.00			
c	BF TA	٥	C	. 200	300	2	ă	MAHA :A	T PHA I	\$ 30	
36.310	-20.000	- 50700	ا بار آ		- 53780	05050	06000	6.37000	4.40150	. 00830	
36.190	-16.000	- 51450	53190	- 51840	53360	01710	00000	6.37000	4.39963	.01720	
35.140	-14.000	50740	52580	- 50840	53070	01540	09000	6.37000	4.4.0170	.01400	
36.100	-12.000	51580	53610	52350	53220	.01350	04000.	6.37000	4.39660	.01560	
35.060	-10.000	53090	54930	52990	54550	.01190	04000.	6.37000	4.39230	01510.	
36.030	-8.000	53130	55560	54010	55560	.01020	.00030	6.37000		.01620	
36.010	-6.000	53260	55300	0+0+5	- 55400	.00790	.00030		•	.01720	
36.000	-4.000	53180	55320	53760	55510	.00600	. 00020		4 39190	07+10.	
35.990	-3.000	52900	54750	53290	0.54940	.00470	. 00020	6.37000	4.39320		
35.990	-2.000	52320	54170	52800	54170	. 00290	.0000	6.37000	4.39170		
35.990	-1.000	52220	54260	52710	54260	. 00150	01000.	6.37000	4.39360		
35.990	000.	52900	54460	53000	54070	01000.	. 0001	6.37000	4.39140		
35.990	1.000	52710	54460	53290	54750	00140	.00000	6.37000	4.38970		
35.990	S.000	52220	53780	52610	54260	00310	. 00000		4.39250		
990 - 5ء	3.000	53190	55040	53190	54940	00470	00000.		4.39070		
36.000	4.000	53860	55510	54340	55610	00580	00000		4,39360	0110	
36.010	6.000	54040	56080	54330	55880	00830	00010		4.39300	.01530	
36.030	8.000	52840	54690	53230	55080	01060	00010		4.39490	006:0:	
36.060	10.000	52020	53870	52310	54060	01190	00010		4.40233	.01550	
36.100	12.000	49830	51770	50410	51670	01380	00020		4.40893	. 01360	
36.130	14.000	49020	50760	46.330	50860	01540	00023	6.37000	4.40570		
	16.000	47970	49710	47970	49510	01720	00030		1 40700	.01170	
300	20.000	48590	50420	47240	49460	02190	00050	m	₩.39901	06800.	
	GRADIENT	00065	00017	00037	00018	00150	00003	.00000	00335	00023	

(B60102) (20 0C1 75)

CAILUMALILYBEINTENTHIS.6V9.ICIVIL ATBEATB7 T28.1

	0000		DCA	00210	. 00380	.00680	. 00720	0, 800	0.510.	.01420	06+10.	.01430	.01480	.01450	.01360	.01420	04410.	01290	.01500	. 01340	07110.	00010.	. 00130	00250	00530	00930	00137
PARAMETRIC DATA	12.000 STAB .000 ELV-08 .000 RUD-1.		ALPHAT	10.87120	10.86730	10.86490	10.86570	10.85970	10.84420	10.84210	10.84320	10.83760	10.84200	10.93900	10.83930	10.83910	10.83780	10.83660	10.83850	10.83850	10.84300	10.84650	10.86119	10.86300	10.85590	10.84650	00050
PAR	ALPHAM = 16 ELV-18 = RUD-U = ITANK =	5.00	ALPHAM	12.77000	12.78000	12.78000	12.78000	12.78000	12.78000	12.78000	12.78000	12.78000	12.78000	12.78000	12.78000	12.78000	12.78000	12.78000	12.78000	12.78000	12,78000	12.78000	12.78000	12.78000	12.78000	12.77000	00000.
	785.	-5.00/	185	06000.	0.00070	.00060	.00050	01000.	04000.	. 00030	. 00020	.00020	.00020	01000.	01000.	01000.	0100،	00000.	01000.	01000.	01000.	01000.	.00020	.00020	01000.	00020	00002
		T INTERVAL	C	.01980	.01610	.01460	01340	.01160	06200.	. 00670	. 00410	.00320	04100.	00000.	00030	00120	00210	00270	00430	00580	00760	00930	01300	01430	016'0	01950	00100
		GRADIENT	ć	- 56900	57770	58040	57810	57690	57830	59610	59240	58860	58770	58490	57910	58010	58860	58960	59740	60200	59400	57700	56190	56040	56350	55320	00033
	IN. XI IN. XI IN. ZT	رد = .00	DP3	56620	559+0	56210	56460	56140	56760	57860	57680	57700	57600	57230	56550	56750	57410	57700	58570	58560	57750	56250	54640	54590	55680	53780	00045
	XMRD = 1348.0000 YMRD = .0000 ZMRP = 402.0000	102/ 0 RN/L	540	57670	57670	57650	57910	57490	57640	59320	59140	58570	58770	58490	58200	57810	58860	59150	60510	60400	59400	57510	55990	56430	56350	55220	00112
REFERENCE DATA		RIN NO.	<u>9</u>	55460	56220	56110	55780	55850	56180	57280	57100	- 56920	56920	56260	56160	55870	57410	56540	58090	58270	57070	55860	54540	54790	54230	53580	00057
	0000 SQ.FT. 7800 IN. 0000 IN. 0400		BETA	-20.000	-16.000	-14.000	-12.000	-10.000	-8.000	-6.000	-4.000	-3.000	-2.000	-1.000	000	1.000	2.000	3.000	۴.000	6.000	8.000	10.000	12.000	14.000	16,000	20.000	GRADIENT
	SREF = 5500.0000 LREF = 327.7800 BREF = 2348.0000 SCALE = .0400		0	36.410	36.290	36.240	36.200	36.160	36.130	36.110	36.100	36.090	36.090	36.080	36.080	36.080	36.090	36.090	36.090	36.100	36.120	35.150	36.190	36.220	36.270	36.380	

•